

<210> 2330
 <211> 402
 <212> DNA
 <213> Glycine max

<400> 2330

tgcctacaac aatcttttaa tatttatgta ggaataataa atcaaagaag ttactaatga 60
 caaaaaaatc aaagaagtta aatataaatt taattttgat caagaaatga caaatgaaaa 120
 ttaatgtggt tttgaaattg ccaagagctg attgaaaatg taaatttatg cacttcgatt 180
 caaaggtcaa ggtaaaaaag aaatagaaca ttacatgtaa atttaatgaa aagaataatt 240
 gaattgtttt ggttaagatg acgagttaga aaggaggaag tgaaattttc aaataacttt 300
 tttatataaa actattcaag gatgatataa aaactatttt taaaatagtt ttagctgagt 360
 gtcattaataa taattgtttt attgaaaaat agtagtagat gt 402

<210> 2331
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2331

ctcagtagta gtataattgg cttggggcatc atctaaagtc ctagaagcat aatatatcac 60
 cctgcgcaat ttatcaattn tttgagcaag gacagccccc aatgcataat ttgatgcatc 120
 acacataagc tcaaaagggg ctgtccaatc ggggtgcctgg atgatggggg tggtagtcaa 180
 cgctcttttg aggcaatcaa aagcctcttt gcatctgtca ttaaagtcaa actccacctc 240
 cttttgcaac aagttggaca gtggaagggc tactatgcta aaatccctta caaagcgcct 300
 gtagaatcct gcatgaccaa gaaaagatcg cacctctcgc acacaagagg ggtaaggcaa 360
 ttgtganata acagaaattn ntgcaggatc tacttcaata cccttattgg aataatgtgg 420
 ctanaactat acc 433

<210> 2332
 <211> 368
 <212> DNA
 <213> Glycine max

<400> 2332

tgaatcacia atctgaacct gtcgacagac tctgtggttt atgctcctct gccgaccacc 60
acacagacct ttagccttct gtgcaacaat ttgaagcaat tgaacagctt gaagcttatg 120
ctgcaaakat ctacaataga cctcctcaac ctcagcagca gaatcagtca caacagaaca 180
gaacaattat gacctctcca gcaacaggta caatctcggg tggaggaatc atcccaacct 240
tagatggtcg aatgcttcac cacagcaaca acaacaaca caaccttatt ttcagaatcc 300
taatggccca agcataccat acgttctctac accaatccag cagcaacaac agcaacagcc 360
ctagaaac 368

<210> 2333
<211> 491
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 2333

tctanactnt atacaagaat gaagctctga taccacttgt tagacaagtg gcctcagata 60
tcttaagaag ggggggttga attaagatat tccaaactac ttccccaatt aaaaatctat 120
ttcactcttt actcaagtta tgaattccct taatgacaat cttcttaaatt attgattcaa 180
ataaaacaat ttgaatatga atataaagca ataataaata aaggagatta agggaagaga 240
aagtgcaaac tcagatntat actgggttcgg ccacaccctt gtgcctacgt ccagtcccca 300
agcaaccgc ttgagagttc cactatcttg taaattcctt ttacaagttc taaacacaca 360
aggacaatcc ttcctttgtg tttagaattc ctttacaaca agagactcac agtctcttaa 420
tccgttagag aatgaggaga agaagaagaa taaatctctc tagaaagaga tggatttaca 480
gaatgagact c 491

<210> 2334
<211> 297
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 2334

aactcttnt atagcagatt tggttggtgct acttcacaac cccttgaact acttcacatt 60
gatttatgtg gtccctctag aactatgagt ttaagtggaa attactatgt ctcggtaatt 120

gtggatgatt actcaaggtt tacttggacc ttgtttataa aaactaaaaa tcaagctttt 180
 gatgttggtc gcaaacttgc caaggtgatc caaaataaaa aaaaaggtct ttacgggtgtt 240
 tcactagaa gtgatcatgg agatgaattt accaatgagt cttttgacaa cttctat 297

<210> 2335
 <211> 456
 <212> DNA
 <213> Glycine max

<400> 2335

agcttcaaga aaaagatggc ctcagcaa at tccttatttc caaaaggtaa ttctatcaat 60
 agacctcaa tctttaatgg agagggttac cactactgga aaaccgaat gcaaattttt 120
 attgaggcaa tagatctaaa tatttgggaa gccatagaaa tagggcctta tatacccacc 180
 acagtggaaa gagtttcaat agatggtagt tcatcaagt aaagcataac tatagaaaaa 240
 cctagagata gatggtctga agaggataga aaacgagtag aatacaactt aaaagccaaa 300
 aatataataa catctgccct gggaatggat gaatatttca cggtttcaaa tcgtaagagt 360
 gctaaggaaa tgtgggacac tcttcgatta acacatgaag gaactacgga tgtaaaaaga 420
 tctatgataa atgcactaac tcatgagtat gaatta 456

<210> 2336
 <211> 462
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2336

cgatgctgag ggggtgcttgt ttgatcggtc aactcattnt tctgagtagt gcgttacact 60
 tttattattt gttcatttca ggttcaacac tgtagcatat ttgcagcaaa tatggtggtt 120
 tgagggtgat ggggagttca gcttcccttt tctgctgat atttatactc tctcctttag 180
 gcttcacctt ggacgatttt ccaagaggct tggtcgacgt gtctgcagtt atgaacatac 240
 ccatgggttg gatataaaac cagtgaagatt tgagttgtca accatggatg gtcagcaagc 300
 atcatctgag tgctacttgg atgaaactga acctgatgat ttacacggca atcacaagcg 360
 tggacattgn gtagattaca aggtgggtga gtttatcgtc agtggatcag aacctacaac 420
 taaagtaaga ttcttcatga tacagattga ttgacacact ct 462

<210> 2337
 <211> 451
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 2337

agctaggctc tagaccttgt cattggatcc tataactcat gaagtgcttc taggccctta 60
 tactctttga atatctcgag aatgaacaat ggaacatctc gagtaattca aatgggcata 120
 acatttcaat cgaatctccg attctagcac gtaatatatt gagacacttg aaatcgaaca 180
 tgaaagetct cggcaaattc aaatggccat aacttttgac tatatgattg aggcccatga 240
 tatttccaga cgctcaaaat tgaacaacgg aagctcttga gaaattcaaa tggtcataac 300
 ttttcacttg gatgtccgat tcaagcgcat aatatatcga gacgcttgaa attgaacaca 360
 aaagctctga ccaaattcaa acgaccataa ctnttcacat ggataatcga ttgatgcca 420
 tgatatatcg agacgctcga caatgaacaa c 451

<210> 2338
 <211> 421
 <212> DNA
 <213> Glycine max

 <400> 2338

agcttcctag acgactactc cggatacaac cagatcagaa tggatcctct agacgaggag 60
 aaaatgacat ttatcactgc ggatgccaac ttttgcataa gggatcatgcc tttcggccta 120
 aaaaacatag gcacaacata ccaacgactg atggatcgag tcttcaaaca acagatcaga 180
 ctaaacattg aggtatatat ggacgacatg gttggcaagt ctcacagcat accccaacat 240
 gtggttagacc tagaagaagt cttcagggaa ctccgcaaatt atgacatgca cctcaaccct 300
 aaaaaatgta ctttcggggg tggcggaggc aagttcctca acttcatgat cacacaccga 360
 gggattgaag ccaaactga caaatgcact gtcatactgg agatgcgcaa cccagccaac 420
 a 421

<210> 2339
 <211> 432
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2339

agcttatgat aaacttgaga aggtttgaac ctcatattag ttgtggatga tcttcatatt 60
ctattgtaga aagcaattta tttttggcct catgtctgtt cagtatcttt gaaattttcc 120
tgtttagcata attactttta tttttctcatt agtaaagat agatttataa gccaaagatta 180
tcattttcaa tatagaatag ataattnttc tttattgttc tcatggcaat tcttacacta 240
ttaaaaaata tactttcaac atcaatttta aaaccgatgt tgaaagtacc aatgtttaa 300
gtaatatgt taacatcggg tttgaaaaac cgatgttaac ataaaaattc taacatcggg 360
tttcaaaata aacgatgtta tatacaaaga actacaaca aataagtgtg tgcataatga 420
atattgacat cg 432

<210> 2340

<211> 498

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2340

ggtgtagcac taccactgc agaagctgaa tatattgcag ctgcaagttg ttgtgctcaa 60
agtctctgat gaaatcctat cccccaaggg cataggatag aagactccaa gaagattggg 120
ccagagatgc aagagaaggc cctaggattc tcattagcct tatggtagat tntgggcccc 180
tgggctaagt atgagaccac ttatctttgt acatattaca ttaatgtttc attatttttg 240
gcctttgtat ttaggactcc ataattgtagg tagggtagcc tagaaatgtt ggacttttca 300
gcccttgtat tttatggcac ctagactagt tntttgtatt aagggtagtt ntgtaatttc 360
attcgatta agtgaatatt tgatgtgtgt gttngnaaat aaatttaatc gaattgggag 420
aagcctaatc caattaaatt ntagaggggg aggtgagcat tngcttgcta cacnccattg 480
ccacatcata tagtcaca 498

<210> 2341

<211> 380

<212> DNA

<213> Glycine max

<223> unsure at all n locations
<400> 2341

agcttgtgga gtataagaag tcacagaatt gtgtagggt ggaaggtaac cgttttgtgt 60
tccctggagg tggcacttcg tttcccgaag gagtcgatgc ttatgttaat gctctaaaac 120
gtcttcttcc cgtgccttta taatctgggg atgtcaaaac aatgcttgat gttggatgtg 180
gggtgagtca ncttctatat cttattatgc tttctccttc cttggattct ctttctttat 240
tttctttcgt cctctcttaa ttgttcgccc tggtatcatt tcattcgcct tcttttagct 300
tgtactttta catgttacta caagaggagt ttcttgagca acanagacag agaggctttt 360
caatcaaag agagcttatg 380

<210> 2342
<211> 430
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2342

agcttgtgaa caaggaagac atagatgatg tgataagaga ggtgcaaadc atgaaccatc 60
tctcgggtca atctaaccatc gtggaactta aggggtgccta tgaggataaa caatcgggtc 120
atttggtcat ggaactttgt gcgggtggtg aactttttga tcgtatcatt gctaagggtc 180
attacactga acgcgccgcg gcttcattgc tgagaacat aatgcaaatt attcacactt 240
tccattccat ggggtgtcatt catagagatc ttaagcctga gaatttcctc atgttgaata 300
aggatgaaaa ttcacccgctc aaggtcacag attttgggtc atccgtcttt ttcaaagaag 360
gtttccctta attctatttc atatattctc tattattntt tctctcttcc acatcttttt 420
ttttttcaat 430

<210> 2343
<211> 452
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2343

agcttgccaa gaaatatcat gttcttctag cttctgaagc agtcatcaag caaattcctc 60
gtcttttggg gcctgggtta aataaggcag gcaagatgat tgctttgcta tttgtctctg 120

attggttctg cgtaaaatat gtgagttctc aaaccaaata atgtcaataa gagaaatacc 180
gcagaagcta taaactgtag cttctgttgt gacacacgcc cgattgggta aaacaatcaa 240
atagaacagt ttcagtgttt cctgtttgtg ttcttagett ggttccagaa ctttccttca 300
cttatcttga agaaacggtg tttcttttgg cttctttgag tgtcttttat gatatgcatt 360
gtgatttacg gagaacttat tgatcacatt ctctgtatct ataccctgc aactntgtca 420
agagtagacg aatattgcac tgatgataat ac 452

<210> 2344
<211> 407
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2344

agctngctaa cccatggaag ctctataat ctccacact ntntagggtg ggccattctt 60
ggatggcctt gattttctca aggtccactt ggaccccat tctaccaact acaaatccta 120
agaaaactat attatctaca caagaggtag acttctctat atttgcatag aggggtgttt 180
tcctaaggac tgaaagaact tgcctgagat gtcctaagt atcatctagg ctctactgt 240
acactaaaat atcatcaaaa taaacaacta caaatctacc taggaaatcc cttaagacat 300
gatgcataag cctcataaag gtgcttggtg cattagttag cccaaaaggc atcactagcc 360
attcatacaa accaaacttg gtctgaaaa gcggtntcca ctcatca 407

<210> 2345
<211> 343
<212> DNA
<213> Glycine max

<400> 2345

agcttctgtt gttcaatttt gagcgtctcg atatactata agcctgaatt ggacatccgt 60
gtgaaaagtt atgaccattt gaatttctgc agagcttccg ttgatcaatt ttgagcatct 120
cgatatatta taagcctgaa tcggacctta ttgtgaaaag ctatgaccat ttgaatttct 180
caacaacttc cgctgttgat tttcgagcgt gtctatatga gaatcgctg aatcagacat 240
ccgaggtaaa agttatgacc atataaattt ctcaagagct tccgctgttc aattacaage 300

gtgtcgatat gcgatgcgta tgaattggag atccgtgctg aaa

343

<210> 2346
<211> 654
<212> DNA
<213> Glycine max

<400> 2346

tcaaaattga taatggacaa gaaagtctc agaaatttta ctctaccaac tacatcaggg 60
ttgtccaaga atgaagaatt gaatttggaa aatgacaaat gacgagtctt ggtgtcgatc 120
tttgtttctt tcccaagttc ttctgatcta aagtaaaaat ctccaccgag tgacgtcgct 180
agatcatgca tgaggtcatg catcacaac catttccgat catgcttgag gtcaggcatc 240
aaaaaccatt tccgatcaga ccaactactt ctatttgaac gttggaaaaa tgatctcgaa 300
accaaactcat caaaatactc atgaccaacc tcttctaaag tcttaccatt tcttggtttc 360
ttcaaaagat cttcgccat ccacaacaag attaatcat ttttttcaa ctcgtaatct 420
tgaggatata aggaacaata aacaaagcac ctttttaaag gtggaggag gtaatgataa 480
ctaagtctca gtgctggaat aactttacac tcaacttcag aaagtccca aatgtcacta 540
ttcagaatat tattccaatc cagcatgtca tgctttcttc tcaacatgcc tccaagcgac 600
tctgtgcta aaggcagtc atcgacttt ttaacaatct tctttccatt tttt 654

<210> 2347
<211> 593
<212> DNA
<213> Glycine max

<400> 2347

ttggagtttc caagtgccaa ttcgtcttct tcttagtcc agtcttcttc tggcttcaat 60
tcatcagtgg gctttcttc tgtgtccagc atcttgggat gttcccagcc tttgatgaca 120
gctttccagg ttctgctatc cagtgatttg agaaaggcca ccatccttgc tttccagtat 180
tcatagtgg tccatccag aattgggtgg ctgttactg gtctctcttc tttctccatg 240
ttcatcagaa tttatctccc tagatctcac tcagtattt cgagtgtctg ctctgatacc 300
aattgaaatt ctgatactgg ggacagatgt cgtacaagat gtcacgacat cacacttcag 360
aacatgcaga ttgtgtttga ctgtatgaac agattaaaca agtaaataac acaagagaat 420

tgttgaccca gttcgggtgca acctcaccta catctggggg ctaccaagcc agggaggaaa 480
 tccactaaaa tagtgtagt tcaaggtcta acagccactg tttacaacct tctcacctaa 540
 ccactaccog tgcgatctct acctaagagc cactcttaaa tatgagaaac ccc 593

<210> 2348
 <211> 555
 <212> DNA
 <213> Glycine max

<400> 2348

tgttgggttc aacttcaatt aagcgctcgg ggcacccat ggactgagcg aaaaggctca 60
 ggtcatcaaa tactacacat cttttaagc acaaagcgag gatcggaacc tcaaccctac 120
 gttcttttga aagactacga tgagaaaatt acagaggaca tgaatccctg ggggaaacca 180
 agaagaacac acaaaaataa aaacaagcaa cgacttcctt aattgcccc gatcttaagc 240
 gtagtatcgc ttgacaacgt cggagttcac gggtgagggg agctcctcga catccatggt 300
 ggcgagcacc aggggtccctc cggagaaatc cttttttaca acgaaaggcc cttcgtagtt 360
 cggggcccac tttcctctat tgtctttcag agcttgggag acttttttca acaccaagtc 420
 cccttcactg aacctgcgcg agcgtacctt cttgtcaaaa gcattcttca ctcgtttctg 480
 atataaacgc ctgtgggtca tggcggccaa atgcttgcc tctatgagat taagctgac 540
 gaaacgtgcc tgagc 555

<210> 2349
 <211> 539
 <212> DNA
 <213> Glycine max

<400> 2349

tgcccagaga aggagtccat ggaggaaatg cttaccacct caaaagactt ttagcgggtt 60
 ctaatgactc ctctgcggct tccacataat gcatagagga tgggaagctc accaagatgt 120
 cttcctcgcc tgatacgatg accagatgcc cttccactat gaatttcaac ttttggtgga 180
 gtgttgaggg aacaactcct aatgagtgga tccacgggag cccaacaga cagctgtagg 240
 gagggttaat atccattatt tggaaagtaa cttgacaggt gtgagggcct atctgtactg 300
 ggagatcgat ctctccccta acctctcggc gggtgccgct gaaggcacga accaccgttg 360

aactcggcctt taagtgggag gcattgaatg gtaattttctc caaagtgctc ttaggcatca 420
 cgtttaaact ggaaccatta tcgatgagca ctttggtac gatatgggtgc atacacttga 480
 ctgatacgtg caaagcttta ttatgccctc tcccctcggc ggggatttct tcttccgcg 539

<210> 2350
 <211> 604
 <212> DNA
 <213> Glycine max

<400> 2350

tgggctcttg cctcactcat cgcctttttg gtttcatttc tagctatctt atacttatec 60
 caagtttcag aatttctaca cctagaccac tccttgaaac actccttttt tactctaact 120
 ttgctctgaa cattttcatt ccaccaccac gattctttac ccctaggtcc aaaacctcta 180
 gattcaccca acgtctcttt agccacttta ataattctctt gggacatctt gttccacata 240
 tcatttgac ttccttgga ttgtccacac caaccctccc atatcttttg ttggaagatt 300
 ccttgtttct cacccttcaa gtgccaccat ttgatccttg gtgctaccat aggacttctt 360
 ctctttgccc tatctctaata tcttacatcc ataaccaaca ctctatgttg ggtagtcaag 420
 ctctctcccg ggataacttt acagttcaag caatacttcc tatcagactt cctgataagg 480
 aagaaatcta tctgagaaca tgtccctcca cttttgtcag tgataagatg ttcctctctt 540
 ttcttacacc atgtattggc tatagaaaga tccaaagcct tcggaaactt caagatggat 600
 ttac 604

<210> 2351
 <211> 636
 <212> DNA
 <213> Glycine max

<400> 2351

tgcatgtcat caagtaataa tccccggacg aaattagggt atgacagttt tccctcttta 60
 cttgcctctc atcggagata agaggaaagc aaagatagga cactgatttc gtcgctctg 120
 ccgtttccgt gatgacgact ctctgtctta ttccttcttt tttcttctgc ataaaacaaa 180
 atacaaacaa caacaagaac aacgaatata atatacatat acacatatat acatatccgg 240
 cgaaggaacc gatccagaaa acaacagaat aacgtgtttc ccagtcacca gaggtctcgc 300

gcttgacaat ggaggacaca tgaatagcgc taggcaataa cattcatgag gctccgaaaa 360
 ggggtgagaa tggaggattg ccttgagggt cctcacttag gcaatcatga aaccagctcc 420
 aaactcgaaa gtggaggaca catgaacaac cctaagcaat aacattcatg tggctcccgga 480
 aaagggtgag aatggaggat tgccttaagg gtccctcactt aggcaatcat gaaacacagt 540
 ttcaaactcg aaagtggagg acacatgaac agccctaagc aataacattc atgtggctcc 600
 ggaaaacggt gagaatggac gattgccttg agggcc 636

<210> 2352
 <211> 533
 <212> DNA
 <213> Glycine max

<400> 2352

cctatgatac tcagcttccc aagttaaagt tcttctcaa aactgtccta agcaatgttc 60
 tttttgttct attaacaact tctgtttgcc catcggtta tgggtgacaa gtggttgaaa 120
 ataacaattt agtgcccaac ttgtcccaca aagtcttcca aaaatggctt aggaacttag 180
 agtccctatc actaacaatg ctctttggca aaccatggag tctcacaatc tccttgaaaa 240
 acaaatcaac cacatgggaa gcatcatcaa ctttttttac atggaataaa atgagccatt 300
 ttacaaaacc tatcaacaac cacaaaaatg gaatctctac cactgcttgc ttttggcagc 360
 cccaaaacat aatccatgga taaatcaatc caatgatact ccggaatttg caatggagta 420
 tacaattcat gaggctttac cttagacttt gccttttaca tacaatgcaa tgttcacaaa 480
 atttcggctc atcctttttc atatgaggcc aataaatatg ttcttgtata tgt 533

<210> 2353
 <211> 337
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2353

tgtgectctc cactatgttc cctcnctca ctcttttgcg tcttccctca cgccttttgc 60
 tcttgtcgcg cgcctatttg cttcttcac ttcgctcct gtggtctctt cacttgcctc 120
 tttatttagt tccttctttc ttcacttget tctttattta gttccttctt catttttggt 180
 tcctcgggtt cttcacttct tctttacttc cttcctcaac tcaagggtgtg attttgtggt 240

<400> 2356

tgaggaagtg ggttgtccac caaatgcgta ttcttacaac acaatgtttg tttttctgtg 60
gagcagtggg gacaaaatta gagcattggg gatgattttg gagatgtcga gcaacggtgt 120
tgatcctgaa ttgatcacat ataactcact gttatcaaaa tatggcatag atggatatgg 180
tggatgacgc cattgggttg ttggcggaca tggaacggag cgagtggcca cctactgtta 240
ttagttacaa cattgttctt attggattgt gcaaagcaca cagaatttga gatgccattg 300
aagtgtggc tgacatgggt gacaatggat gtcagccaaa tgaaactact tacacgttgt 360
tggtggaagg ggctggattt gattcatgct caatcaacaa attgtattca tttatcaaca 420
gcgtttttcc tttcatttga actaaattt 449

<210> 2357

<211> 471

<212> DNA

<213> Glycine max

<400> 2357

taaaggaagt gaacgaatta ccatgggcag aaatgtctcc gattgatttt aaatctgttc 60
ctcaaattcc tggaaaatgc aaagattcac gtacattcag cataccttgt attataggga 120
atagtaagtt tgacaatgcc atgctagatt caggagcttc tgttagtgtt atgcctctga 180
ctatgtttaa ttctttatct ctacgtccct tgcagtcaac tgatgtggta attcatttag 240
ctaatagaag tgtcgcctat cctgttggct tcataaaaga tgttttagtt agagttggta 300
aactgatttt cctgttgat tttcatatta cgaatatcga ggatggattt cctcataaat 360
cagtttctat tcattctatg ctgacccttt atgataactg ctacaactaa tattgatgta 420
tatgcatgca cactatccat ggagtatggg gatataaccg gtccttttta t 471

<210> 2358

<211> 568

<212> DNA

<213> Glycine max

<400> 2358

tggtggctag ttcatggcat taatgtcca atacttcaaa aggttgcctt taagctactt 60
gcgcaacctt gctcatcttc ttgttgtgaa agaaattgga gtacatattc atttattcat 120

tcttttaaaga gaaacaagat ggcaccactt agagctgaag atttagtatt tgttcatagc 180
aacctacgac ttctctcaag gaatactcca caatatcatc aagaggaaac taaaatgtga 240
gatgtaactg gagatgattt tgggttactt aatgaatgtg gcattcttga aatttctaata 300
ttgtcttttag atgaaccaca gttagagggt gtcttttttca atgatgattg ctagtttgta 360
gaattcttga agacttgaag ttgctaattc atcatcttgc ttataatta ttcttttcga 420
aagaaacaaa gtgtacaaat cgtataatga ggtctcttag tatttcttgt gacttattat 480
cataggaaaa gtttttttga gatgatgatg aatatataaa tcttaacttt caattaagat 540
cctttatgca tatcgctcat atttaatc 568

<210> 2359
<211> 579
<212> DNA
<213> Glycine max

<400> 2359
tttttcaatc ttctgtaagg gtgatgagct ttacaaaat gacgatgtct attgtacact 60
gtttttctac catgtttcag ttgtatgtag cttgtgtctt cttcacagat ggggcatgca 120
agatgaccct taacactgta accgctgaaa ttcttatatg ctggaaagtc attaattgga 180
caaaatagca ttgcacgcat ttgaaaagtc tccttgtgaa acccatcaaa tactaaaacc 240
cccttatccc acaactttct caggctttca atcaaccgac ttaaataaac atcaatgtca 300
tttcttggtt gtcttgggcc tgatatcatc atagacaaca tcatgtattt tcgcttcag 360
cacaaccaag gcggaaaatt gtaaaatact aatagaactg gccatgaact gtgttgagt 420
cttaaattgc catatggatt cattccatca ctggctagtc caagtctaag atttcttgcc 480
tctttgccga aattcggata caaactatca atcctcctcc actgggagca atcagctgga 540
tgacggacca ttccatcaga atttctccca ttgcatgc 579

<210> 2360
<211> 614
<212> DNA
<213> Glycine max

<400> 2360
tattgtagaa ctgctcacca aaatatcaat tgaatttttt atgtacaatt ttattcaaaa 60

gaaacttgga caatgacaaa gtacaaggaa ataagaatgt actgattatt cacctctctc 120
 cttctctcag ctcggtcacc acacttaaaa ctgaatccat aatttggaag tgttcccacc 180
 ctttgagggt tggcatcttc tgtgttggaa cttctaggag gattaagggt aaaacacaaat 240
 atacacagca ccacactcaa taataaattt aaataataga gaccagtag ttccagattt 300
 tcactcataa atatacaaac ccaaaaaagg atacaaggaa gattctgctt ctccttgaac 360
 tttatcaatg ggttcttttc tcatgattt tggttttgtc ttctccctgt atccaaaaca 420
 tcacagtcca ccagttaaata aataacaaca atctatcttt ctagcaatgg aacatagaca 480
 agaaatacaa gcattacata cactgatact tcagaagatg ttgcatcaga cttcaaagggt 540
 gctgagaaaa acaaagtgc aaaaactatca gggaatgcc aaactataaa cttgatttcc 600
 caaaagagat aaaa 614

<210> 2361
 <211> 535
 <212> DNA
 <213> Glycine max

<400> 2361

tgcacgcaca ggagcccaga ttccgtcggt taccctgtag atagatagat ttataactt 60
 agatggcata tttctcccaa atgcatcttg agtaaagtcc cattgatatc gataaaattg 120
 ctgtaatcag gctctacaca tgcagggtgt cagagggttc tccagaggt cgtagttagg 180
 gaaagtctct tctggcaatc cgtccgagt ctggtgagta acaacaacat cttctacaaa 240
 aggagcccaa cccatatatg gatcccaaaa agacttggac attagccctt tgtcaggctt 300
 aattgatttt agacgggtgac ccatgtatct acgtgctcca atgatcaact tagcaaaatt 360
 gcctccatgg gtcacacga atacatttga cttcaagcac accaagaaat caagagctgc 420
 caggcttgct acatgctttc tgaaaccatc taactcctct ttagttgcca actcctcctt 480
 ggaacctgtt gcaaatgggg gaaatattaa ttaccttgca aaagaatcaa aaata 535

<210> 2362
 <211> 608
 <212> DNA
 <213> Glycine max

<400> 2362

tgaagccaaa aggaaaaaag aacttgtagc tgttcaatgt actctccata ataaagtgtg 60
 ttcaatgcaa agttaccact ccattccatc caaccttgag gattgataaa gccatcaaga 120
 caagtcttca ttaaaaactgt tcttgaatat tgcttccatg gtcttcgaag ataagtccta 180
 accgggtttt gaaccagtct caaatctgaa gtagctgtga ctcaagaatt gcgaattgaa 240
 attccagtgt tttagtttgg atcagttctg ccttgtgcag tgatggtgtt gactatgttg 300
 ggagggtttc ttgcaagggtg ttgcagtttt gtaacacaac aacaacatgc tacaggagat 360
 ttccatcaac ttccctgccca caggcgtttg ggtaaaaaaca aaatgttaag tcaactaata 420
 gccaggaaat tccattacac tttcacatgc acacagtaaa aagaaacaag ttatatattc 480
 agagggtgat tagaatcaat gaattttata tcccttctaa attcgtacca aacaatttaa 540
 ttgtaagaaa ataaggaatc caaaatatgt acttgactag acttatgata tagtggaata 600
 aatgatat 608

<210> 2363
 <211> 628
 <212> DNA
 <213> Glycine max

<400> 2363

tccgttggtc aatttcgaac gtgtcgatat attatgcgcc ttgttcggtt ctccaagtta 60
 aaagttaga ccatttgaat ttctcgagag cttccgttgt tcaattacaa gcgtctctat 120
 atattatgcg cctgaatcgg acctccgagt gaaacgttat gaccatttga attgctcaag 180
 agcttccatt gttctatttc gagcgtctcg atatattatg cgcctgaatc ggacatgcga 240
 gtgaaaagct atgaccattt gaatttctcg agagcttccg ttgttcaata tcgagcgtct 300
 cgatatatta tgcgactgaa tctgacatct gaattaaaag ttatgaccat ttgaaattct 360
 cgagagcttc cgttgttcaa tttcgagcgt ctcgatatat tatgcgcctg aatcggacct 420
 ccgagttaaa agttatgacc atttgaattt ctcgagagct ttcggtgttc aattcgagcg 480
 tctctatata ttatgcgcct gattcggaac ttcgagttaa aagtttgacc cttctaattt 540
 ttcggagctt ccgttggttca attacaaccg tcttattttt atgcgcctga atcggactct 600
 ccagtgaag gttttacctt tgaatttt 628

<210> 2364
 <211> 605
 <212> DNA
 <213> Glycine max

<400> 2364

tgccagaata atgggttgga tacagatcat tctgggaggg ttggtcatct ttgtaagcct 60
 tttgagtctc actagattct actcagcagg atttttcctc cacaatgaag atatatgccca 120
 acactttctac aatctgaggg atgtttctga tggttttgat gtcaaatacat tctctgatag 180
 agttggagaa gtgatagaca tggttggaagc tttgcaggcc aagcttgagt caaaagttca 240
 agaaatggag aaaaacaaag gcaccatggt ggacaagaag tttctagagg atcaaatagt 300
 tagccctctt catagtgcta atgttgctct aaggcagatt cgggttccca aggttgatga 360
 agggacgaac tccacagtga aggaggatca tttgatcaat tttttcatca ttgaggaaat 420
 tagaaagtac ataaccccca aggagaatag ggttggttaag atcaacctat atggtgcaga 480
 caaggtttac aacacaatag gccatgcttg tgttttgtac aagaaagagt tagagaagta 540
 catggactat gacattggct cctattggga tgatgattgg aatttgctca gaagcctatg 600
 ctaat 605

<210> 2365
 <211> 373
 <212> DNA
 <213> Glycine max

<400> 2365

tcccagtttc taactcttcc taaaactgtc ctaagcaaag ttcccatttt tttattaaca 60
 acttccattt gcccatcggg tcgtgggtga caagtggctg aaaataacaa tttattgccc 120
 aacttgctcc actaagtcct acaaaatagg cttatgaact taaagtcctt atcactaaca 180
 atgctccttg gcaaactatg gagtctcaca atctccctga aaaacaaatc agccacatgg 240
 gaagcatcat ctatttatct acatggaata aaacgagcca ttttagaata cttttcagca 300
 ccacaaatat ggaatctcta ccattgggtg tgttcggcag cccacaaca aaatccctgg 360
 ttaaatcaaa tcc 373

<210> 2366
 <211> 592

<212> DNA
 <213> Glycine max

<400> 2366

tatagttatt ggagggagaa taaaacaatc caaaatcaat tgtacctttt tgtaacgaag 60
 aattcttttt gcggctttta gatgaggaga ggtaggagcc tccataaagc gacacacaac 120
 tcccaccgca tatagaatat cgggccttgt attggttaga taccttaaac tccccacaag 180
 actcttgaag atcatggagt ctaccttctc tccttcatca aactttgata acttcaagcc 240
 accttccata ggtgtgttca cgggattgca atcaagcata ttaaatttct tcaacacttc 300
 ttttgtgtac ctttcttgtg agacaaagat accattctcc gtttgcttca cttccattcc 360
 caagtaatat gacatgagtc ccatatctgt catatcaaat tcacgagaca tggactcctt 420
 gaagtcttca aacaaatttg gggtattgcc ggtaaagata aggtcatcca cataaagaca 480
 aataaataag acatcaccat tattaanaag tttaacataa agagcataac tcatttgaca 540
 acgaacaaac ccattgtctt ggaagtactt gtcaatgcga gtattccatg cc 592

<210> 2367
 <211> 677
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2367

tatatcagaa aattaaggcc aaaaagggtta ttgaatgaag aacatgaact atttagacag 60
 caaacctag actacctaaa ctgggagcag caggacaaac aattagtgtc tttggcttct 120
 accatcaatg gcaccgagtc ttcacacaaa aggatgggtg gaagatactt gaaacctaac 180
 cttttagacc aaagccaaaa tcaaacaact aaaacagaaa ctaagtgtct aatagatagg 240
 agcaatgaat gtatatTTTTT gaaacataat catagtaaca cgaatgggta agaaaaacta 300
 actggTTTTT aaacaaaatt aactataatg acttagtatt gtcttagtct aatttaaatt 360
 tccaaattca cagtaacacg aatgggtaac aaaacctatt gttcagaaaa ataatcatat 420
 tgactagtct catcttagtc aaatatcaat catattagtt agtctaacta tggtttcgaa 480
 acatgagaat agagatagac cactgaacaa tggattttca tcattaacag agaatagaga 540
 cataccttcg atggcttccc tggcagtctt aaagccaagc ccaatggact tccaaaatcg 600

attccacccc ttttcgagac tttntccttt cctagttctc ttcgagctgc aaaagtgacc 660
 aaatgttaaa atgagga 677

<210> 2368
 <211> 618
 <212> DNA
 <213> Glycine max

<400> 2368

tatggcggca aagggttaagc taccaagcct gaagcatggt ggtggttggtg tttgtgaaca 60
 ctgtatcctt ggaaagtaga aaaaggtcag cttctcaagg gcagggaaga ctcttaaagt 120
 tgaaaggcta gaattggtgc acacaaatgt ttgggagcca accctagtga aatctattgg 180
 aaactcacgc tattatgtca cctttatcga cgactctacc agaaaggat gggtttattt 240
 tcttaaaaat aaatctgatg tgttttctgt gtttaaaagg tgaaaaacag aagttgaaaa 300
 tcagacaggt ctaaaagtct aaaatatgac aatggcgggg agtatgatag tcaggagttt 360
 aaagactttt gttcaaaaca tgggatcaga ataatcaaga caatacctgg aacacctgag 420
 caaaacggtg ttgcagaaaa gatgaataga accttgaacg agaaagtgag gtgtatgcag 480
 atccaatttg gcttgccctaa agcattctgg gcaaaagcaa taaacacagc cacatatctc 540
 atcaatagag gaccatcagt tcccttgaaa tatcacgtcg cccgaagaag tatggtctga 600
 aaaagagggtt aaactttc 618

<210> 2369
 <211> 663
 <212> DNA
 <213> Glycine max

<400> 2369

tatcgttatt ggaggagaaa taaaataatc caaaatcaat tgtacccttt tttaacgaag 60
 aattcttttt gcggctttta gatgaggaga ggtacgagcc tccgtaaagc tacacacaac 120
 tcccaccgca tatagaatat cgggccttgt attgattaga taccttaaac tcccacaag 180
 aatcttgaag atcgtggagt ctaccttctc tcttcatca aactttgata acttcaagcc 240
 accttccata ggtgtgttca cgggattgca atcaagcata ttaaatttct tcaacacttc 300
 ttttgtgtag cttccttgtg agacaaagat accattctcc gtttgcttca cttccattcc 360

caagtaatat gacatgagtc ccatatctgt catatcaaat tcatgagata tggactcctc 420
gaagtcttca aacaaatttg gggtatggcc ggtaaagata aggtcatcca cataaagaca 480
aataaataag acatcaccat tattaaaagt tttaacatac agagcatact cattttgaca 540
acgaacaaac ccattgtctt ggaagtactt gtcaatgcga gtattccatg ccctcggtgc 600
ttgctttata ccatacaacg cccttgtaa tttcaagact tttccttctt gacccttgat 660
gac 663

<210> 2370
<211> 641
<212> DNA
<213> Glycine max

<400> 2370

tagccctaga ggggatggac cttttcaggt tttggagagg gtcaataatt ttgcctatag 60
gttggacctc ccagatgagt atggaatcaa caccactttt aacatttctt atttaattcc 120
ttttgcacgt ggagctgata ttgacgagga ggaactaaca gatttgaggt caaatcctct 180
tcaacgggaa ggggaatgatg caatcctccc taggaaggga ccagtcacta gagccatgag 240
caagaggctc caacaggatt ggggttagaac tgctgaagaa ggccttagga ttctcatgaa 300
cctcaaggta aatttcttag cccatgagct aagggtgggt ccaattatct ttgtacatat 360
tagactagga tgtcattata tttggctcct gtatttaggg ctccataatg taggtagggt 420
accctagaag tataagattt ttcagccctt gtattttagg gtgattttag gcagtcttct 480
tgctaagtta acctgcacat taaaaggatt tcaaaaaaat gttcaagtga ttgacgttag 540
aaaaggacat ttgcttcta accatagagc ccatgttaca ccatagagca cttcttaagt 600
cttaagcata aactaacttg acaacagtaa aggggaatttg a 641

<210> 2371
<211> 587
<212> DNA
<213> Glycine max

<400> 2371

tcttatgatg caaacgagtt acccgctacc tcatgcactc ctctaattgt ttattcatca 60
tttctggcgc taaactgctg ggagttggaa gccatcttct caattaaatt tctggcttca 120

acaagagtca	tgtcttcaag	ggctccacca	ctagcatcat	ctatcatact	cctctccata	180
ttactgagtc	cttcataaaa	atattggaga	agaagttgct	cccaaatcgg	atggtgaggg	240
caactggccc	atagtttttt	aaatctctcc	cagtattcat	ataagctccc	tccactgagt	300
tgtataatac	ctgagatata	cttcctgatg	gccgcggtcc	tggcaacatg	aaaaaaaaaa	360
tgctaaaata	ctctcttata	gtcatcccaa	ctcgtgatgg	accttggagc	aaggtaatac	420
agccactcct	ttgccactcc	ctctcaaaaa	tgaggaaaag	cccttacaaa	tatgtgaccc	480
tcttgacat	ctggggggtt	catggtggaa	ccgacaatat	taaattcttt	cacatgtttg	540
tgcgagcctt	cacctgcaat	gccctgaaac	tttcggaacc	acatgga		587

<210>	2372
<211>	506
<212>	DNA
<213>	Glycine max

<400> 2372

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atcgagacgc	tcgaaattga	aagctgaagc	tctgagccaa	tacaaacgac	cataactttt	120
tactcggatg	tctgattgag	tcccgtaaca	tatcgagacg	ctcgaaattg	aatgttgaac	180
ctgtgagcca	attcaaacga	caataacttt	tttctcggat	gtctgattga	gtcccgtaac	240
atatcgagac	gctcaaaatt	gaatgttgaa	cctctgagcc	aattcaaacg	acaataactt	300
tttactcgga	tgtctgattg	agtcccgtaa	catatcgaga	cgctcgaaat	tgaatgttga	360
acctctgagc	caatccaaac	gacaatagac	tttttactcg	gattgagtga	tagcgtccccg	420
gaacatatcg	agacgcttga	aattgaatgt	tgaacctgtg	ggccaattaa	accgacaata	480
actttctttct	ccgatgtctg	attgag				506

<210>	2373
<211>	636
<212>	DNA
<213>	Glycine max

<400> 2373

tcttatgatg caaatgagtt tgtagctacc tcatgcactc ctctaatagac tatagcatca 60
tttctggcgc taaactgctg ggagttggaa gccatctcct caattaaatt tctggcttca 120

gcaagagtca tgtctccaaa ggctccacca ctagcagcat ctatcatact cctctccata 180
 ttactgagtc cttcataaaa atattggaga agaagttgct ccgaaatcgg atgggtgaagg 240
 caactggcac atagtttttt aaatctctcc cagtattcat ataggctccc tccactgagt 300
 tgtataatac ctgagatata cttcctgatg gccgtgggtcc tggaagcaag aaaaaaaaaat 360
 tgtaagaata ctctcttaag gtcaccccaa ctogtgatgg accttggagc aaggtaatac 420
 agccagtcct ttgccactcc ctctaaagaa tgaggaaaag ccttcagaaa tatgtgatcc 480
 tcttggacat ctggggggtt catggtggag cagacaatat gaaattcttt cagatgtttg 540
 tgcgagtctt cacctgccag gccatgaaac tttggaagca aatggattag tccagtttta 600
 agaacatatg ggacatcctc atcagggtat tggatg 636

<210> 2374
 <211> 607
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2374

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 ctgagcaact ccttcttcag tatttctatg agagacttag caacatggag aggagtatga 120
 ttgatgctga cagtgggtgga gctcttggtg atatgaccct tgcagaggct aggaatttga 180
 ttgagaagat ggcttccaac tcccaacaat ttagtgcaag aaatgatgct attgttctta 240
 gaggattcca tgaggcagcc acggattgat catcatctat tgaaaataaa aagcttgaag 300
 gaaaacttga tgccttggtc aacttggtaa ctcaacttgc catgaatcag aaatctacac 360
 ctgttgcaag agtctatggt ctatgttctt ctgcaaatca ccatacagat ctttgcctt 420
 ctttcagca atctggagtc aatgagcaac ctgaaactta tgatgtaaac atttataata 480
 gacctctca gtagcaaaac caacaacaac aaaataatta tgacctttca agcaatagat 540
 acaatccagg ttggaggaat catccaaatc tgagatggac aagtcctnca caacaacaat 600
 agcatgt 607

<210> 2375
 <211> 488
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 2375

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ctnaccctta	tgcgattga	actacttta	ggaagtaggg	gaatgaaagc	cccccataac	120
cattaactgg	gaaccaagtt	catgatcgcg	tcaacgacat	tgttaccgtg	tttgggaagt	180
cccacaagaa	gacatcatct	tccaacaaca	tgtggaagaa	acgctcaata	ttctttgatc	240
tttcatactg	ggctgatcta	tatgtgcgtc	actgtctaca	tgttatgcat	gcggagaaaa	300
atgtgcggga	tagcttaatt	tgtactcttc	ttaaccttaa	agggaagaaa	aacgatgggt	360
tgaaatttct	tcacgacttg	cgtgacatgg	gaatacgaga	gcatttgctt	tccatatcac	420
aaggtccggg	aacatattta	ccccctacat	gccacacact	tgtctacatc	agagaacaaa	480
aacttttg						488

<210> 2376
<211> 623
<212> DNA
<213> Glycine max

<400> 2376

tcaccaact	caagcatgga	aagaaaaaag	tatataccag	acaccgaaga	tttctaaaag	60
cttttcccc	ttatcgacga	ttgaaaaaag	cttttaatgg	aagtcagggg	aatgaaggcc	120
cccagaacc	attaactgga	aaccaagttc	atgatcgcgt	aaaggacatt	gtaaccgtgt	180
ttgggaagtc	ccagaagaag	acatcatctc	ccaacaacat	gtggaagaaa	cgctcaatat	240
tctttgatct	tccatactgg	tctgatctat	atgtgcgtca	ctgtctaaat	gttatgcatg	300
tggagaaaa	tgtgtgtgat	agtttaattt	gtactcttct	taacattaaa	gggaagaaaa	360
aggatgggtt	gaaatttcgt	caagacttgg	ttgacatggg	aatacgagag	cagttgcatc	420
ccatatcaca	aggtcggcga	acatatttac	cccagcatg	ccacacactg	tcaacagcag	480
agaagaaaag	tttttgtcaa	tgtctgcgga	atgtctaagt	tccacaagga	tactgttcaa	540
atatcaagag	ccttttgtgcc	ctcaatgata	ttaagttggg	tggcttgaag	tctcatgatt	600
gccatgtctt	tatgcgacaa	tta				623

<210> 2377

<211> 536
 <212> DNA
 <213> Glycine max

<400> 2377

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 ataacctaac acagctcata ctttgctgta cccttattta cgtgactata tatatggagg 120
 aacgatgggt tcttgattta aacatacaca ctttgataaa ttctcacctt cggactttga 180
 ctccagagga tgtcaagata atttatcggg aacaccgtgc accatatatc ttcaacattt 240
 gaccgtcaat tggattcata cttggtcacc tgcagcctat ttattgcata tggtagcttc 300
 tatgatgccc acataaatac gtgtatcaga aaccatacgt attattctaa aatatatatg 360
 atgcacatca gtgaaacctc caagagtaac tgtattggat acgtatccac tacggatgtg 420
 tgaaacaaat tggactattg gcgtgcttca tataccttac cgggagttgc tgcactaaca 480
 ctcttatgta tccaggtgga gatcgatgga gtccctatga tactgttgc aagaaa 536

<210> 2378
 <211> 419
 <212> DNA
 <213> Glycine max

<400> 2378

ccagaaacca tgggagttgg ctgagattta gaggacctac gtccttcaaa gaagacttgt 60
 taagatgagc aataagagag gtgatttcaa aagaagaaga gttggtgaag attatatcat 120
 caacatacac caacacatag gttttagagg taggtgtaaa tcacatgaaa agagaagtat 180
 cactcttggc tgaattaaat cccaaggacc tcaaagtcaa actgagtttg tgaaaccaag 240
 acctggaggc ctgtttcaag ccataaagag ctttgagcag tttgcatact ttgtgtttgt 300
 cggatgaaac aaagcttggt ggttgagtca tatatacagt ttcttgaagg tctccatgca 360
 aaaaggcatt gttgatatcc acttgatgaa taggccattg ttgagaaacc acaaaggac 419

<210> 2379
 <211> 364
 <212> DNA
 <213> Glycine max

<400> 2379

gatgaagacg acagggacca ccgagggggt tccaatgagc cgcagtaggg cgcggttttag 60
gtccttgcoct cttggatcct cgtccagctc gtgcacgggtt ggggttcacac ccatgccgca 120
gaagagcctc ttgatggcgt ggcacatgca gcacgtgctc acgctgaata tcaccaccgc 180
gctctccgac gccagcctct ctatgcgctc cagcgggtcc cccactaccg ccgccgccgc 240
gttccgaggg gccgccacgt agtccccca ccacgccgcc gccgctgctt ggtaatgcat 300
tctcagaaga attttatgtg atgaaagaat gacacgcaca atgtatgaaa atgagagtga 360
gaat 364

<210> 2380
<211> 408
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 2380

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catatatcga gacgctcgaa attgaatgct gaacctatga gccaatcaa acgacaataa 120
ctttttactc ggatgtctga ttgagtcccg caatatatcg agacgctcga aattgaatgt 180
tcgacctgtg agccaattca agcgacaata acttggtact cggatgtcgg attgagtcct 240
gtaatatac gagacgctcg aaattgagtg tttagactgt gagctatttc atacgacaat 300
aactgtctac tcggatgtct gatagagtcc cgtaatatat agagacgctg gaaattgaat 360
gttgaaactc tgagccaatt catacgacaa taacttttta ctcggatg 408

<210> 2381
<211> 337
<212> DNA
<213> Glycine max
<400> 2381

ccacaaacca tgggagtcgg ctgagattta caggacctat gtccttcact taaaacttgt 60
taagatgagc aataagagag gtgatctcac aaacaccaag agttggtgaa cattatatca 120
tcaacatata ccaacacata ggttttacag gtacgtgtaa atcacatgaa aagagaagta 180
tcactcttgg ctgaattaaa tcccaaggac cttaaagtca aactgagttt gtgaaaccaa 240
gacctgcagg cctgtttcaa gccataaaga gctttgagca cgttgcatac tttgtgtctg 300

tccgatgaaa cacagcttgg tggttgagtc atatata

337

<210> 2382
<211> 324
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2382

agcttgtaat cgattacaca tataatgtaa tctattgcc gagcagattt tcagaaaata 60
ttctcaacag tcacatcttt ttatgtggtt cttgaatggc tatcaaaggc ctatatatat 120
gtgacttgag acacgaattt gctaagagtt tttcagaaca aaaaagtctt atcctcttat 180
aaagaaaaat tgttttatcc tcttacaaat tccttggcca aattacttgt gattcaataa 240
ggaatttttg agtgctcaaa tngttcaatn tatctctttc aagagagatt tcttcttttc 300
ttcttcttca ttctgaaaag ggat 324

<210> 2383
<211> 399
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2383

tctccatctc tacaganaca aacgtaactt catcattcaa ctctgccatt ctgagctgat 60
ttagagtcct tttggcatag acagtgaatg caatagaggt aactattgcc ataataaag 120
aaataatgtt gtatacgata tccacaggag tcaagcgggtg cttcccatat tgtgcgtctg 180
ccaatgtctc tattaaccga ccaactgagag atggagaaaa agataaatct caagatgaga 240
tgtagtttta tttaacagaa gtaaaaagat aacacgttct aagctgatcc acatctatat 300
gactatatcc atcagaagtc atatatgctt ctcaacttct caattctcat tttcatacat 360
gtggagctaa caaaaactcg ggtacggtag ggaactcat 399

<210> 2384
<211> 469
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 2384

agctnggttc gaatgacttt ntaatgaaaa attggtatca accgaactaa tattttatgg 60
tttggtttgg ttcgattttt gtaattttta caaaatatta tttcactaaa atttataatt 120
ttttttaata ttttgaatca aattacatta aaaaaattgt taataacaat ctatgaaact 180
tattaatatg ttaaacattc taaaataaaa attttcaaaa atctcatcta tttctaacat 240
atcttaaaaa aatcatatga aaaaaagtaa tatgcattat ataagtctta tatacatgac 300
aataaaaaac attgtgaaac tcaagtgata catgcataaa atacataaca ctaaagtaat 360
ataagtatta gtacaagtat tatggtttga tttgcgttca aaaacatata ccgcaaactg 420
aactgaacca atcattttga gaaaaacatt caaacaattc aaaaaaagt 469

<210> 2385

<211> 465

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2385

agcttgggtct ctntntcatt tctagtttag ttatgaaaca tgttcaagtt tgtctctggt 60
aagaggatta taaaattccc acctatatat gatgtacata ttataaaatg cagtgtttac 120
taaaagatgc ataacaacta cacaatccct gtcactggcc taataataaa attttgaggg 180
gatgtctctt tgattaatct ggcataaatt aaaaaaatt gaaagaaaag tataatacat 240
ttacagtga aatgttttgg aagtatcata agcattttga ttttagagat cgagaaataa 300
aaaagatata tcagttataa aaatgtgtgt aaaagtaata tagtttacta atttgtcctg 360
tacttttttg ttctatgttt taaatagtga ttctgtaaaa cacaacataa cactttttaa 420
agaaagacta aaacaggaca gagacatgta tgtctgatgt ctata 465

<210> 2386

<211> 461

<212> DNA

<213> Glycine max

<400> 2386

gtaacaatct caaaacttct caacattgtc ttaatgacct tcacattttg cattgatgct 60
tcaccaaaga atatggtatg atctgcatat cacaggatac taatttccac tgagcttctt 120

cccaccaaga ggcctttaaa ctgatttttt ttagagcttc tctcattaga cccgttaatc 180
 cctcagccac aatattgaac aggagtgggg ctaacagatc cccttatcta agtctctttt 240
 gagggaaaaa ttctgctaaa ggactcttat tgatcaatat ggagacaaaa gctgatctaa 300
 aacatcctgt gacccaagtt atccacttta gggtagaatc ccctcctcct acgcatatat 360
 accagaatat cctcactaac tgaatcatgt gccttctcat agtcgacttt gaacaccaag 420
 cagctcatat cacctctctt cacttctctc acttcattgg c 461

<210> 2387
 <211> 385
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2387

gcttgccgcc atggagtntt ccgactatgc tcttgtgtgg tggaacaagc tacaaaaaga 60
 gagagcgaga aatgaagagc caatggttga tacatggacg gagatgaaaa agatcatgag 120
 gaagcgatat gtgccagcta gttactcaag ggacttgaaa ttcaagctcc aaaaactaac 180
 ccaaggcaac aaggggggttg aggagtattt caaggaaatg gatgtgctca tgattcaagc 240
 aaagattgaa gaagatgagg aggtaactat ggctcgattt cttaatgggt tgactaatga 300
 tatccgtgat attgttgagc tgcangagtt tgttgaaatg gatgaatttc ttcacaaagc 360
 aatccaagta gagcaacaat taaaa 385

<210> 2388
 <211> 392
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2388

tgaatgtgtt actntgacac tctctgatga ggaatacacc atagtcata gctctagaag 60
 cgccacacaa atgtggaaca ccttagccat aacatacaaa ggggtgtcac aggtaaaaag 120
 gaacaatatt aaactaagac tcctaacaca taagtatgag atgttttagaa tggaggaagg 180
 cgcagacata caatgtatgg ttgaatgctt ccaaaccatt ttaaacgagc ttacagcata 240
 gtgtagaact cttgacaatt atgataatat tgataaaata ctaagaagtt tatcaagaaa 300

gtggagatcg tacgttacaa ctttaatagc tataaagaat cttgatactc tgtctctaga 360
agaatgtagt ggaaccttaa aggtcatgaa ca 392

<210> 2389
<211> 354
<212> DNA
<213> Glycine max

<400> 2389

tgtgcctctt caggtctgga atgtgaatgt agcatataga tctaaatacc cttatgcgct 60
ttgctgatgg cttctttccg ttgcaagctt caattggagt cttgtcggtt acagacttag 120
ttggacatct gttgagcatg tcaacagcat cagagactgc tatagtctag aatgcgttac 180
gtagattcgt tctcttgagc agtcatctag ccatctccat aactatgcca ttctttatat 240
cggacactcc atattgttga cgagaatatg ccaactcgaag atggcgctca atgccttaat 300
cctcacaaaa tgtgtcaaac tcgcgagagg tgtactcttt gtccaatcac ttct 354

<210> 2390
<211> 315
<212> DNA
<213> Glycine max

<400> 2390

cttgcactat tatatttatt ttggtaacag tatatatttt gcctgaggtc tggttattac 60
gatgaagcaa gaaatgttgc ccaatcttca cgtgcttcac atcaatttgc tcctttggta 120
catactgtgg tcactactta ttactaatt tatgatttaa tctttcttaa taatttactt 180
atttctgaca gctgacagag tggattaata aaggagggat ggtaccagaa gagattgcag 240
ctgctgcac tgatgaatgt gaaagaatgt tgagaactgg tgaccgggta ggtcgaactg 300
catatgacaa gaaaa 315

<210> 2391
<211> 361
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2391

tgcttctaaa ctttatacaa gaatgaagct ctgataccac ttgttagaca agtggcctca 60
 gatattcttaa gaaggggggc attgaattaa gatatacaca tcttttctaa attaaaaatt 120
 ctattttgat ttttaaccac atcccaagat ttctttcaaa aatgaactcc taaataatta 180
 tgcaaattaa tcttactgaa tagaaacaat aagcaatata caatatacaa taaaagagtt 240
 taagggaaga aagattgcan actcagaatt atactggttt ggcacaccct tgtgcctacg 300
 tncagtcccc aagcaaccgc cttgagagtt ccactatctt gcaaaagtcc ttacaagttc 360
 t 361

<210> 2392
 <211> 472
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2392

cgctgcatgc aagcttctac anaaatcctt attaaagaaa gacttcttga aaggaggagac 60
 cattatttac tgtgaacaat ttgctcaatt gacaacaagg ttagatcaaa tttgttacta 120
 acaatcttta tattatgtca ttttcaatca atcaattata ttttttaatt ttctttaaca 180
 caggtccatc gtctacaaat ttattctatt ggggtggggt ctataacaca taaactcaac 240
 tttagaaaat gataaaaaga gaatgattat ctcaaatgat acaaaggtaa tatagtga 300
 ttattttaaa atatttatgt actctaattt aataaatgca tatatttaatt tttaaatttt 360
 ctatcacttt catacaaaat aatttttcaa agacaagaca ctatgaatga tgtgtataaa 420
 aaaaactaag aagactcatt ccagggttaatt aattattcaa atttatatca tt 472

<210> 2393
 <211> 386
 <212> DNA
 <213> Glycine max
 <400> 2393

ctcagctata atatatcgaa tatgaacaac ggaagctctc gtgagattta tatggtcata 60
 acttttcaca ctgacgtccg atacaggttt ataattgtatc gatatactcg aaattaaaca 120
 tcggaaactc tctagaaatt caaatggtca taacttttca cacggatgtc cgattcgggc 180
 gcataatatg tcgagaggct cgaaattgaa caacggaagc tctagagaaa ttcaaattgg 240

cataactttt cacacggatg tccgattcgg gcgaaacaca tttcgagacg ctcagaattg 300
aacaacggac gctctagaga aattcaaacg gtcgtaactt ttcacacgga tgggcgattc 360
aggctcatca tatatcgata cgctcg 386

<210> 2394
<211> 425
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 2394

ttgaatttct caagagcttc cgttgttcaa tttcgagctt gtcgtcatat tatgcgcccg 60
aatcggacat ccgtgtgaaa agctatgacc atttgaattt ctagagagtt tccgatgttt 120
aatttcgagt gtatcgatat attataaacc tgaatcggac ctcagtggta aatgttatga 180
ccatttgtat ttctcaagac cttccgttgt tcaattctga gcgtctcaat atgtgatttg 240
ctcgaatcgg acatccgtgt gaaaagcaat gaccatttga atttctcaag agctctccgt 300
gttcaatttc gaccctctcg acatattatg cgcccgaatc ggacatccgc gtgaaaaggt 360
atggccattt gaanttctcg agagcttctg atgtttaatt tcgagcgcac tgatatatta 420
taagc 425

<210> 2395
<211> 315
<212> DNA
<213> Glycine max
<400> 2395

tctgaatagg acctccgtga gaaagggttat gaccatttga atttctcgag agctttcgtt 60
gttcaatttc gtgcagctcg atatgtgata caccagaatc ggacatccga gtgaaaagtt 120
atgaccatat gaatttcttc atagcttccg ttgttcaatt tcgtgcatgt cgatatgtga 180
agcacctgaa tcggacatcc gagttaaacc ttatgacatc attaatctcc cgagagcctc 240
cgttgttcaa tttcgagcgt ctcgatatat taagcgcttg aatagcacct ccgtgtgaaa 300
agttatgacc atttg 315

<210> 2396

<211> 406
 <212> DNA
 <213> Glycine max

<400> 2396

agctctgctt taggggcaat gatacgacca ctgataagca atggaagcat gagaaaacat 60
 gtgggcgtgc cctaggccta agatttgaca aagagagtgg agatctatac atagcagacg 120
 catactatgg acttggttggt gttggaccta atgggggact cgctacatcg ttggcaaccc 180
 atgttgaaag aaagcccatt ctcttcgcaa atgagcttga cattcataag aacggatcca 240
 tcttcttcac agacaccagc aaaagataca acagagtgtg agcctttatt actcatatac 300
 tatacatcat ttgagtatat tcatgcactc attattgctt tcaatggatt attattgttt 360
 acaacgtact tattacttgt ttgcagcgcg cattctatta tattat 406

<210> 2397
 <211> 387
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2397

cataccatct actatgccaa caaagttata aatgatgcac agatgaatta tgctaccaca 60
 gaaaaagaaa tggtggcaat tgtctatgca cttgaaaagt ttaaacttta tttggtaggc 120
 tcaagagtta tcatctacac tgatcatgca gctattaaat acttgctcaa caaggctaata 180
 tccaaaccaa gattgataag atggattttt ttgttgcaag aatttgattt ggtgattcgc 240
 gataaaaagg gatcaaagaa tggtgtagct gatcatctgt caagattagt gaatgaggaa 300
 gttacagcaa aagaagtcga agtgagagat caattccctg atgaatcanc tattttaata 360
 agtgaaagac cctggtttgc tgatata 387

<210> 2398
 <211> 478
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2398

ttaagtcacc tgcggcatgc aagctntaag agcaattcct ttctttntct tatcattctc 60

ctcatgttga ttcaatctca tcaattccat ttcatgttcg tgtaactttc caaaciaaagc 120
agcaagagac atgttagata gatctcgtga ttcagtaatg gctgttacct tgggttgcca 180
ttctctgctt aagcatctca aaactttatt gataagatct tcatttgga atgtttttcc 240
taaagatgca agatgattaa ttatgtgtgt aaacctcttt tgcattgtctt gtatgggttc 300
atttgattc attctaaata attcatattc atgagtcaaa atatttatcc tagatctttt 360
cacatttggt gttccttcat gggttacctg taaggatatcc catatatnct tttgcatttt 420
acaatttgat acactaaagt attcattcat cgctaaagca gatgtaatta tatttttg 478

<210> 2399
<211> 438
<212> DNA
<213> Glycine max

<400> 2399
cttaagtcac ctgcggcatg caagcttggt tccaacgct ttgttcagac tctcctaaaa 60
tctagagggtg aatctaggat ctctatcaga cactatgcta gatggcacac tatgtaatct 120
gacaatctca ctaatatata gggagggtcaa cttctccaag gaaaatctga tcttaatggg 180
aatatcctta gggaacactt caggaaactc tctgacaata gggagggtcac ccatggaaac 240
ctttgtctct acttctaggt tagacatgat catgtagact taagcatctt cttttaaaga 300
tgtcacaact tgggttgcaa agataaacat cctatcctta ctactccag aatcatcaaa 360
cactgcattt ttattaaaac aatttaacaa gacatgggtg gaagataact agtccattcc 420
cagaataaca tcaatttg 438

<210> 2400
<211> 391
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2400

tgtgttttcc cttgtagaac tactaactgc agtaacagat tctcctgaaa tctgttgagt 60
cccacatcga gtagaagtgg aaagggtgag caccatataa gtgaggagaa gaccataaa 120
tctgagcctt aagggttttg gttagagtgt gatgtcagat ctcttatgt ggtggctcgt 180
ggtccacagg tgtaccctc gaatctcccc aacaattggt atctgagctg atgggttcaag 240

ttggtgaccg gctcagacga gtatgcaagt actgcaggtg gccaaaatgg ctagcggcac 300
 agcgtgcccc gcaggtggag cggngtggcc agaattggcta gcgggcacgg caagtaccgc 360
 aggtggccat ggctatactt gtggatgata a 391

<210> 2401
 <211> 256
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2401

agctngatgc tgcaaaactta tctgtatcca agattggaga gcacatgtca ggaggttcta 60
 gtggcgggctc ctcagctggt ggttctcacg gaggcgacca ggctcccgag gcagaatacg 120
 atgaggagaa gaagtaaggc gaggaggggt ttgtatccac ttctactgag ttattttggc 180
 tagagttaga gatgaatcat cttttttcat tcagcatatg atataaggta ttttgtacta 240
 caaggctgga gttcat 256

<210> 2402
 <211> 450
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2402

agcttccatc acanaatagc tactaaggtc ttgttgctga gattnttctg gccaacactt 60
 tttaaagatg cccatcacca tgtcttaaag tgtgatcaat gtcaaagaat ggtggatttc 120
 ccgaaggaat gagacgcctc ttcaaaaaat tatggaggtt gaagtttttg attggtgggt 180
 tattgacttc atgggtcctt tcccctcatc tgctagtaat aagtacatcg tggtagctgt 240
 agattactgt gaatgtatgt atacatgatt ctgatgatgt caaaagaaga atcaaataag 300
 gctcatttgc ttcaagatta atacaagatt gtntcaacaa ataaagcctt gattcaagat 360
 gtcttcaaga tcaagtcttg cctcacaatg aaaggtttca agtcatccaa ggcatatgta 420
 atcgattacc aatacatggt gtcataccct 450

<210> 2403
 <211> 424

<212> DNA
<213> Glycine max

<400> 2403

tttgtagata atgttaatgc ttcacctgta ccgttgaatg tgttgtcagt gccatggttg 60
ttcttaatgt ggggcataga tgtgattggg gctatcgagc ccatggcttc aaatgggcat 120
tgtttcatcc tagtccccat tgattacttc accaaatggg tggaagctgc ctcatatgct 180
aatgtgatta cgaatgtggt ggtagattc atcaacaagg agataatttg tagatatggg 240
ttgcctagaa aaataatcac cgataatact actaacttga aaaacaaaat gatgaaggag 300
atgtgtgggg atttcaagat ccaacaccat aattcgacac cttatcgacc caagatgaat 360
ggatgaagttg aggctgccaa taaaaatatc aagaagctca ttcacaatat gaggatgtca 420
taca 424

<210> 2404
<211> 393
<212> DNA
<213> Glycine max

<400> 2404

agcttacctt caattattgt gattcatggt atattgtcta attacacttc ttacttattc 60
atacaatact atgtttcaga tttatccata cacttggtat tatggataaa aataaatgaa 120
atacttttac actcaatctt attactataa aaatctctat tgaatctcac tattacattt 180
gattaccaca ttattataat taaaggatat ataaggagg aaatacttta taatgatcag 240
aggagggagt aaggtgaaag gaaagaagat atagggtcat aatgtcatgc acaaccagtg 300
tatctcttta taccatgtat aataatacat cagtctcttt ataccatgta caactagtag 360
atcaactatc ttatacattt gctcaggcct tta 393

<210> 2405
<211> 428
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2405

gtgatgggtg cgagaagaaa tcacatgttt gtcacatca aaaaggggga gaatgtgaat 60

gtatgtatac atgattntga tgaatgtcaaa aaagaatcta acaaggctgc ttcaaagtat 120
aagcatttgc ttcaagaata attcaagatt gcttcaacaa acaaagcctt gtttcaagat 180
tactaaaga ccaagccttg ccttaaaaca aagtgatttc aagacatgca aggctctggt 240
aatcgattac caggaagtgt aatcgattac cacaagacgg cggttgagaaa tagctgttga 300
aaaaggtttt gaatttgaat tttcaacatg taatcgatta ccatatgtct gtaatcgatt 360
accagcaacg aaactttgga aactcanatt caaaagtcac aaccctctca aatataactg 420
tgtaatcg 428

<210> 2406
<211> 258
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 2406

ntntagcaat tcagatgggc ataacgtttc actcgatgt ctgattcaag cgcataatat 60
atcgagacgc tcgagattga ataattggaag ctattgagca atcccaatgg atataacttt 120
taactctgaa gatcgataga tgcacatgat atattgagac gctcggaaat gaacaacgga 180
tgctctcgag aactcgaat ggtcataact tttaactcgg acgcctgctt gagacgcatt 240
atatatcgtg acgctcta 258

<210> 2407
<211> 334
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 2407

agctttcaga aaatgtctat gccgagtgt taccattntt cttccatgtt tcagttgtac 60
gtagcttggtg ttttcttcat agataggga atcacgatgt cctttaacac tatatccact 120
caaattccca tatgctcgaa agtcattaat ggtacaaaat agcattgcac gcaacttgaa 180
tgtctcattt cgatacccat caaatacaac aaccctctcg tcccacaact ttgtcaagtc 240
ttcaatcaag ggactgagat aaacatcaat gtcatttctt gggtgtctta ggcttgatat 300
catcatagaa cacataatgt attttctcta catg 334

<210> 2408
 <211> 108
 <212> DNA
 <213> Glycine max

<400> 2408

attcttatga ttgcctatgc gtggaccctc aagtgaatc ctccattctt ccctctattc 60
 cgagccccat gaatgtcatt gcctactgct ggatcatgtg cctccacc 108

<210> 2409
 <211> 259
 <212> DNA
 <213> Glycine max

<400> 2409

tgcacactat gatacattgt gcctcctcat tgttgaatgg agtagcttca aaactgataa 60
 tagacaagaa agatctcata cattgtgctc tatcacaact atgccagttg aacaacctct 120
 tgatggcggtg gcacatgcag cacgtgctca cgctcaatat caccaccgcg ctgtccgacg 180
 ccagcctctc tatgcgtccc agcgggtccc ccactaccgc cgccgcccgc ttcccagggg 240
 ccgtcacgta tcttcccat 259

<210> 2410
 <211> 304
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2410

tcatactatt tcaagaaact gaatncttgg tctccatggt atcaaaaaca actctagcat 60
 ctcttaacat ccctgacttt gaaagcatac taattagaga aggtgccaca agtctttctg 120
 gctcaaaacc gagccttaca acccaagcat ggatttgcatt tcctataacc accggaccct 180
 tgatggccaa agctgcaatt acagtagaaa cagtataata gtcacgtctg tatcccctaa 240
 cttggatcag acagaacaat tcccacacct gatcattaaa tctattccat gaataaccgc 300
 tgag 304

<210> 2411
 <211> 463

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2411

agctttcttct tcagactntg tgaacagtgt cttgttattt atcgaanaat catccattgc 60
 atcaatgctt gaagaacctg ctatgtgttg gggaatattg gggggtttct tccaaagggtg 120
 atttcatagg gggaaagtct ggtgcttgaa tgaattgata tggtatagga ccattcgggtc 180
 tatatcaaaa acttacccca ggacaacggg cgatggtgaa cggaggctcg taagtactgt 240
 tcgacaactc gatttagcat tttcgtctgt ggatgatagg cagagctcat acaaaagttt 300
 gtgtcgctga gttggaacaa ttcttgccaa aagtggctga tgaacaatgg gtctcgatag 360
 tagaccaagc tatgaggcat tccatgaatt ttcccaacaa tgtccatgaa aaggattgca 420
 atagtgtgag tcgtgaagtg tgacttgagc ttggccaggt gga 463

<210> 2412
 <211> 278
 <212> DNA
 <213> Glycine max
 <400> 2412

agcttaactc tattcgcatt cttatctctc ttgctgctac acatcattaa cctttatttc 60
 gataggatgt acagaatgct atcttgcatt gtgacttaca tgaagagggtg tatatagagc 120
 aatcacctgt gtttgttgct taaggggtgt ttggcaaggt gtgccgctta agggagttgt 180
 taaatggctt gatgcaatca cctagatctt ggtttgggag atttagtggg gtggtccttg 240
 catttggact gaagctgagt caaagtgatc atactgta 278

<210> 2413
 <211> 400
 <212> DNA
 <213> Glycine max
 <400> 2413

tcatcaaact acttgggttcc cgagggaat tctataaaca gaccttctat ctttaatgga 60
 gtgggttacc actactggaa aaccgcgatg ccaatcttta tagaggccat agatttaa 120
 atttaagaag ccctagaaca aggaccttat gtccctcta taatagctgc aagtgaaca 180

atagaaaaac ctagagcaga ttggactgac gaagaaagaa gattagtacc atataattta 240
aaggccaaaa atattattac atctgcctta tgaatagatg aatactttac ggtttcaa 300
cggtaaagtg ctaacgatat gtgggataca ctacaagtaa cacatgaagg cacaacatat 360
gttaaaagat ctagaataaa cactttaact cgtgaatatg 400

<210> 2414
<211> 386
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 2414

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aatatctgga aacgttnttc cttctctgca gcaccccttat atatttttcc atattctgcc 120
atccaatttt catgtctttc tcgcaaggct gtttgatgca gcttgcgng catcacttgg 180
gaaatcccaa ctgcaaggaa aaggaatagg gctaacatgt gttgctnttg gccagtga 240
gccatttctt aattatcagc aatgatcagt tttgtaagaa aaggcttagt tggatatatt 300
gtgtaaagag agaaatgtga attggtatgc attgaaatga atgaatctgg agggttatat 360
agagatcata gtaccttatg ctatgg 386

<210> 2415
<211> 312
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 2415

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atagtccttc cttctgctct tgaacgancc cgaactggta tttcgtcatc catatttgg 120
actagaatac ttttagcaac acaaanatct tggacatccg caaaaaaatt attccagcca 180
ctctctctca ttgtgcccc aagagctttg acaacatcaa ctaattncat ggcattcaca 240
atattaagaa tctttctttg caatatattt tgaaagctcg ttgtgatacc aaacaacttt 300
aacattaacc tc 312

<210> 2416

<211> 426
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2416

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 aaatgatgcc ttatgaatcc tccgtgtgctt acgccactag tgcctggaag gccattatc 120
 ctatacatga atatgttgga tgaatcaatg ggggtgtatgc tggggcaaca tgacgagtct 180
 ggaaagaagg aacatgccat ctattaccta agccagaagc tcacatcatg tgaaatgaac 240
 tactctttgc ttgaaacgac atgttgtgccc ttggtatggg cagcccaccg tctaaggcag 300
 tacatgttga gctacaccac tcttgtgggtg tccaaaatgg acccagtcaa gtacatattt 360
 gagaagcccg ctctttacat acggatcgct cgggtgtaggt tctgctatat aatttgacat 420
 cgttat 426

<210> 2417
 <211> 402
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2417

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 ataaagggtgt ctattttata taccactaat gtccataaat tagggatgtt acactgcgga 120
 caaaaaagta tattaataag aaaaaatgat tgataaatag ttatatgaaa tggtaaaaaa 180
 attactatga atatattcac attaaagtat caaatccctt gaaaggaaaa ttcaagttat 240
 ataaatgatt tcttttaata ttatagttaa aactcccgtg cattgcacgg gttttaatta 300
 agttcttgaa cattttttta aaaaaatttt ccctgaacat aaaaattaat tcataatttc 360
 ttaaaaatat ataacaaaat ntaagcaaa ccacaaatta ac 402

<210> 2418
 <211> 405
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2418

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aacagatgcc ttaggccaaag gaattggtgt tgttttgtct cagaatggcc atccaattgc 120
ttttttcttt aagaagcttt cttctcgtat gcagaagcaa tcagcttatg ttcgtgagtt 180
gtatgcaatt actgaagcag tggctaagtt ttgtcattac ctttttgggc attattccat 240
tatctggaca gaccaacgta gtctcaagca cattacggac canatcattc aaacaccaga 300
gcaagagtcc ttgttaccta agctttcttga cttcaacttc tcgattgagt ataaacctgg 360
accactaat ncaagtgctg atgctntatc atgggtcttcc tatat 405

<210> 2419
<211> 411
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 2419

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acagtgtaat cgattaccag aagacaattt tgaaaaacag cttttaacaa gggttttaaa 120
tttgaatttt gaatcatgta atcgattacc agatgtttgt aatcgattac tagcaatgac 180
acttcataaa atactttgaa aagtcattgac ctttcaaaat ataactgtgt aattgattac 240
cagaaaccta taatcgatta ccagtgaaaa atttcagaaa aaagtttttg aaaagataca 300
tctcttcaaa tcattttgaa aagacacaat gggcctatat atanggtgtg ttgactntat 360
aaagtaaaga gagaattcta gagaacttaa ttgtcaattc tccaacaact c 411

<210> 2420
<211> 355
<212> DNA
<213> Glycine max
<400> 2420

agcttgaggg taaactttat cccttagtca acctattaac tcaacttgcc atgaatcaga 60
aatctacacc tgttgcaaga gtctgtgggc tatgttcttc tgcagatcac catacagatc 120
tctgtccttc ttgacagcaa tctagagtca atgagaaacc tgaagcttat gctgcaaaca 180
tttataatag acctcctcag tagcaaaacc aacaacagta gaataattat gaccttccaa 240

gcaacagata caatccaggt tggaggaatc atccaaatct gagatggaca agtcctccac 300
aacaacatca gtctgtcctt ttctttcaga atgttgctgg tccaagcaag cctta 355

<210> 2421
<211> 391
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2421

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gtacgattta ggcccatggt atatggagac actcgaaatt gaaaaatgaa aggtctcaac 120
atattcaaat ggtcataact tttcactcaa atgtcagatg caggtatata atatataagag 180
atgctcgaaa ttgaacacgg aagctctgct ccaattcaaa ctgatatgaa ccctcatgga 240
acaagggctg acttaggatc gtctaggatt aaaccttgat ggaaaatgag gaaattgatt 300
aacgtaagga tggaacataa ggtgggttaat ttcgtgggtc ttaatcacgt ggctcttggc 360
ataaaatgga tgaatgggat gggtaaatgt a 391

<210> 2422
<211> 208
<212> DNA
<213> Glycine max

<400> 2422

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tgctggaaag tcattaatgg tacaaaatat cagtgcacac atttgaaaag tctgcttgtg 120
aaacccatca aatactatta cccctcctc ccacaacttt ctcacgtctg tcttcaacgg 180
acttagataa acatctatgt catatgct 208

<210> 2423
<211> 407
<212> DNA
<213> Glycine max

<400> 2423

tcgtctgcga tgggtgtagt tttatgatgt ggtggcttgc ggttggtgag gcggacagtt 60
ttgatgatga ggggtgaagaa gctgacgagg aaggcataga caacgagagt gccagtgct 120

tagatgaaga cctagcgact aacaatgatg cagcccagat atatgtacct tttctttcttc 180
 tttttatggg ctcctttgcc caagagccac ctatgttggg tctcaccaaa gcaccttggt 240
 ccagctcatg gagattcggg ggcggagtct atgggtgtgaa tctcaagcag gcctccccac 300
 agatccctac tgtgcatact atattttcga tcccttatga taaacaccag actcacatac 360
 tgctagtaag tactacctag taactcgtat ttctctcgtt ctaaact 407

<210> 2424
 <211> 372
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2424

ctcagcttga tcggaatttg caccagaatt cgtagctcgc tctgttgatc tttcaccttt 60
 agtctacgtc tacgactcag cgcgtcaaag agttncagag cgaactcctt agagtccttc 120
 atcccttcaa aaaattaaac aaagcataca aaactcttca aacaaggagt gaaaatgaca 180
 aaccgattaa atgcacatgc caaacgcaag aatctgaact gaaatttgaa aaggaatcgt 240
 acctatgcat tgcgcaaaat cagtgcgata aagataaccc gtcttggcaa gactatagaa 300
 atggctttgc acctcgttcc aggcgctcgc gccattggat ntactgctaa taaatttcag 360
 tccacggagc gc 372

<210> 2425
 <211> 329
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2425

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 cattntgctc agagctttgg ccaaagggta gcttatggcg aaaccgccc caccataggc 120
 catgccgtag gagaagaata tgttctgcaa gtgactctcc gacaagctcc caatgtagta 180
 catgtagttg tggcgtact tgtttaaaat cctcagcaga ttgtccgtca cgaaaacggt 240
 gtcgtcgtcg cccatcacga accaccgcac gttcttgtgc cccatagca gcgtttccgt 300
 cagcatgcgc gatattcgaa tcgcgagc 329

<210> 2426
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2426

tcacgatctc acacgtcgaa ctacatgtat ncttcattgg aagatcttag aggggacatg 60
 ctttaataaat aactctgaca ctcaaataag tacatgaatg agttgagtat gaaattgaaa 120
 aggggtgaaat aagatctgat ctttataacg tgagatagga gtttcgagtc cttgattgta 180
 agagagttat tacagtgatg taacaactct agataattcc taacttggtg ataatatata 240
 gtagaaaaat catagcttgg taataatagt taatagataa ttcatcactt atagattatc 300
 caatggatta tagataatcc atttattata gataattcat tactagtaga taagtaagta 360
 cctgtaactt tgataagaaa taataacatt atcactaaga ttcaaata tagatatttg 420
 taacaacatg ttggccctat agctcgac 448

<210> 2427
 <211> 341
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2427

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 aaattcaaat ggtcataact tttcactcaa atgtcagatt caggtatata atatatagag 120
 atgctcgaaa ttgaacacgg aagctctgct ccaattcaaa ctgatatgaa ccctcatgga 180
 acaagggctg acttangatc gtctangatt aaaccttgat ggaaaatgcg gaaattgatt 240
 aacgtaagga tggaaaataa ggtggttaat ttcgtgggtc ttaatcacgt ggttcttggc 300
 ataaaatgga tgaatgggat ggtaaaatgt acgttaagt g 341

<210> 2428
 <211> 442
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 2428

agctttaatt aatcgctac agaattccag gcatttctgt cgttcaatgt ctcttggtcc 60

caatcccaaa cacctcagaa gtttattagc aaaagccagt ctagcaaagc acatgtacat 120

gacataacct ttcaatttcg tgttcgtgta ttatatatgc aaactgtgat ggcattgtatt 180

caattcaccc tataaaaaaac attccagttt ctattcatga aaatgaatta tcatttctat 240

acatattttt aatttaattt aatcaaaata catggacatt tacatcattt tttaatccta 300

taggaagagc attatatgtt atgcatgacc aaactatcga tatatgtatt ggaatgattt 360

taaaagatac aattgagata attntaatta gtttataatc taaaattctt tgcaccaata 420

atatatcaaa attattattt tt 442

<210> 2429

<211> 253

<212> DNA

<213> Glycine max

<400> 2429

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agtagcaagt gaatatgaac gaaatttctc acgagcacia actatcgcta atcgctcatt 120

ctctgtgggc gtgtaattta cttgaacaac atccaaagtt ctggaagtgt gatagatcac 180

tcgaggtagc ttatcaatct ttctgagcaa ggacagcccc taatgcgtaa ttggatgcat 240

cgcacattat ctc 253

<210> 2430

<211> 246

<212> DNA

<213> Glycine max

<400> 2430

tatacacaca cacacacaca catatatata tatatatata tatatatata taatttgatc 60

ttaattaatt attaccggtg ggaagattaa tgacataaaa ataagaagtg tcatgatcat 120

gtattcatgt ggtacaagtt ttgatggaat agaactacat ggagcaaagc ggtacttgct 180

ggatcagttc ctaaaggaca aagtgaacga cgaagatgat gactacggag gtactatata 240

aaatcg 246

<210> 2431
 <211> 401
 <212> DNA
 <213> Glycine max

<400> 2431

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 tatatctgga tgattaagaa ttgactacca taatctttgt gaaacagagt agtatctacc 120
 tttcctctta taaagccatt ttcaattaaa aatgaactta gcttttcata caaagctcaa 180
 ggagctatatt ttaaaatata caaagccttg ttaaatttga aaacatgata aggggtatata 240
 gaactctcaa accccagggg gctgttcaca tcaacttctt ccttgataag tccattgagg 300
 aacacacttt ttatgttcat ttgatacaac atcataccgt gataagcaac acagttaaatt 360
 tggtttgtcc agcttgtttc taaacactca ctgagttcta c 401

<210> 2432
 <211> 371
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2432

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 taagtatatt caccaggaaa aaattgtagt ggaaggaaat tgtagtggtg tgattcaaaa 120
 gatccttcca cccaagcata aagaccttgg gagtgttaact attccttggt caattagaga 180
 agtcaactgtg ggaaaagctc tgattgactc gggagccaac attaatataa tgtcattctc 240
 catgtgcaga aggggtgggag agatggagac catgcccact aagatgactt tacaactggt 300
 tgaccgctcc attaccagac catatggagt aattaaagat gtgctggtca gagtgaaaca 360
 ttntatcttc c 371

<210> 2433
 <211> 376
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2433

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 aaaaatgggc attgaccaat ccccttttcta tgacttgacc caattatcta gtgaaggtgt 120
 accatttgaa ggtacactga atgatgattg gaaatttgat ttctctgtgc atgatgcccg 180
 ccggttggtt tgaaccaacc aagaggatat gactggaagg cttcttgctg gatcattggc 240
 ttttgaaagc catatccttc actatctcat tgtgtgtatt ttacttccaa gatcttcaaa 300
 cctttgctca ggttctgaag acgatcttat agtcatgtgg gcttttcata ccggccgaca 360
 aaatgatttg gcacac 376

<210> 2434
 <211> 379
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2434

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 cacagtggcc aaagatgcat gggagatcct gaanatcact catgaaggaa cctccaaagt 120
 gaagatgtcc agattgcaac tcttggttac aaaattcgaa aatctgaaga tgaaggagga 180
 agagtgtatt catgacttcc acatgaacat tcttgaaatt gccaatgctt gcactgcctt 240
 gggagagagg ataacagatg anaagctggg gagaaagatc ctcacatcct tgcctaagag 300
 atttgacatg aaagtcactg gcatagagga ggcccaagac attngcaaca tgagagttga 360
 tgaactcatt ggggtctctt 379

<210> 2435
 <211> 206
 <212> DNA
 <213> Glycine max
 <400> 2435

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 gtggtcaatc tcgatcctct tgacatatta tgcacccgca tcggacctct gtgtgaaaag 120
 gcatgatcat tcgtatcttt cgagagcttc cgatgtttaa gtcccagcgt atccatatat 180
 tattaactct gaatcggacc tcagtc 206

<400> 2436

<210> 2437

<211> 413

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2437

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gagtatggag	gattgccttg	aggggtccgca	cttatgcaat	catgaaactc	aactccaaac	120
tcgaaagtga	aggatatagg	aacagcccta	agcaataaca	ttcatgtggc	tccggaacgg	180
gatgagaatg	gaggattgcc	ttgaggggtcc	tctcttangc	aatcatgaaa	ctcaactcca	240
aactcgaaag	tggagaacac	atgaacagcc	ctaagcaata	acattcatgt	ggctccggaa	300
caggatgaga	atggaggatt	gccttgaggg	tcctctttta	ngcaatcacg	aaactcaact	360
ccaaacttga	aatggagaa	cacatgaaca	gccctaagca	ataacattca	tgt	413

<210> 2438

<211> 382

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400>	2438
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tgtgttggtt	gattctgggtg	ccaccatttc	ctttatatct	tggttgtgtg	tagaaaaact	120
taagcttttt	gtgtcttctt	taaataaaga	tctagtagta	gagaccccta	ctagtgggtc	180
tgtgttaact	tctgatgtgt	gtttgaattg	ttctgtggag	atttctggta	ggatattctt	240
gattgatttg	atttgtttgc	ctttgagcta	gaatgatgtt	attcttagta	tggactgggt	300

atcttccaac catgtcttgt tgaactgttt tgaaaaagtg tgggtgntga tgattctgga 360
gtgagtaagg atatgatgtt ta 382

<210> 2439
<211> 354
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2439

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gcaagagaag gccctagggt tctcatgagt cttanggtag atntcgggcc catgggctaa 120
gtacgagccc acttatcttt gtaaataatta gattaagggtt tcattatctt tgggccttgt 180
agttagggct ccataatgta ggtagggtgc cttagaaata taggattctt cagcccttgt 240
atcttagggc acctagacta gtttttgtat tatgggtagt ttgtgaattt catatgcact 300
aagtgaatat ttgatcgtgt ggttggaac taaattaatt gaattggtag aagc 354

<210> 2440
<211> 364
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2440

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tcaaatgatg ccttatgaat cctcctgtgc ttacgccact agtgcctgga agggccatta 120
tcctatacat gactatgttg gatgagtcaa tggggtgtat gctggggcaa catgacgagt 180
ctggaaagag ggaacatgcc atctattacc taagcaagaa gttcacatca tgtgaaatga 240
actactctnt gcttgaaagg acatgttgtg ccttggtatg ggcagccac cgtctaaggc 300
agtacatgtt gagctacacc actnntgttg tgtccaaaat ggaccagtc aagtacatat 360
ttga 364

<210> 2441
<211> 399
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2441

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tggcaggtaa atctcattat ttttttcttg atgggttttc tagttattta caaattcata 180
ttgctcttga ggatcaagaa aagaccacat tcacctgtcc ctttggcact ttttcctata 240
ggaggatgcc ctttggccta tgcaacgccc ctggtacctt ctgtcgcaac ctaccctttt 300
gcgggcaagc gaggcgaggc tcacgggtgc cttttccaaa ggaggaaaat gcgcggagtc 360
gtcaccaacg tttatttctg gaaaacgtcg aaaaaatcg 399

<210> 2442
<211> 396
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2442

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ccgggttgga aaacaacctt nttgcgcccc ttgtttgctt gtttaacata gctctcattt 120
ctctttttta ttatggcctt gactctttca tggagctttt tcacgtagtc cgctttggct 180
tgtcttcct tatgcttaaa aactgaaata ttaggcattg acaacaaatc aagaggagtt 240
agtggattga aaccatatac aaccttcaaa ggagaacaac tagtgggtgct atgcacagtc 300
ctattataag aaaattcaat gtgaggtaag caaacttccc aatttttaag attcttttta 360
aaagggtcct tatcaaggta cccaatgtcc tattca 396

<210> 2443
<211> 473
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2443

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tgaccgacct cggtttgatg agttacttcc atggcataga agtaagtcac agaaatgaag 120

ggatattcat ctacacaaaag aaatacacaa aaggcttact taagagattc aagatgtatg 180
 gttgcaaacc tgctgctact ccaactcaaaa caaatgagaa actacagaag aatgatggag 240
 caccaaaagt ntatgcatcc caataccaaa gtctaattgg aagcctccta tatctgaccg 300
 ctacacggcc tgatataatg tatgctacaa gtcttctatc aagattcatg cagagtccaa 360
 gtcacataca ctttggagca ggaaaaagaa ttttaggtat ctacaacgaa caaaagagtt 420
 ccgtatatgg gatactaccg ataccaactc acaattactt ggctacactg aca 473

<210> 2444
 <211> 446
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2444

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 accctaaaat ataaaaaata aaccctaaac cctaattggt tagacaccaa accccaaacc 180
 tcaaaacctt aaaccataaa cccttaaccc taaattctaa tccctaaacc ctaaactcag 240
 aattctaata cctaaaccca aaactatgca ttataaaccc taaaccctaa actctaaacc 300
 acaagggtta gacaatacac catacatctt aaaccctaatt cccttaaccc taaaatttaa 360
 atactaaacc ctaaaccctt aaccctaacc tttaaaccct taatcctaaa atatcaaaaa 420
 taaaccctga accctaaacc taaaca 446

<210> 2445
 <211> 421
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2445

cttgtccatn tatcacatgt ccagcaatca tactattcta aganactgaa tccttgttct 60
 ccatgttatc aaaaacaact ctagcatctc ttaacatccc tgactttgaa agcatactaa 120
 ttagagagtt gcacacaagt ctttctgtct caaaaccgag ctttacaacc aaggcatgga 180
 tttgcattcc tatagccacc gcaccctgat tggccaaagc tgcaattaca gtacaaacag 240

tataatagtc aggtctgtat ccctcaactt gcatcagaca gaacaattcc cacacctgat 300
cattaaatct attccatgaa taaccogtga gcaaggaatt ccacgacacc acgtctctgt 360
cacccatctc atcaaaaact ctctcccat ctctaacatt ccccgttntc gtgtacatat 420
c 421

<210> 2446
<211> 418
<212> DNA
<213> Glycine max

<400> 2446

agcttgtctt ttctcttctg gtcaaaaatc atatttacga gaattattaa tttgaattct 60
gcgaaggaca tttgggacta cctcaaatca gagtattaag gtagtgtgca aactaaaggt 120
atgaaggcac ttaacttggc tacagaattt gagatgcaaa gcatgaagga gacaaaaact 180
atcaaaagtt atgctgacaa acagttgagc attgcaaaca aggtacgtct ccttggttaag 240
ggatttccta acgaaaggat agtgcacaaa atagttgtta ctatacctga aaaatatgaa 300
tccaaaatat cagcattaga ggagtcaaaa gaattgtcaa atatcaccct cggagaattg 360
gtaaatgctt tacaggcaca ggaacatagg agaatgatga gacatcgggt ggcaatac 418

<210> 2447
<211> 483
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2447

agcttacggc ccatgaaaat actccaaaac ttaactttta aaatatagca ngaaacaaac 60
cacaaataaa aatttcatcc tcactcttaa gaatgatccc acagtgtcaa cttacatagt 120
ataaaaaaat ctgtaagttt gttctagata gtgtttgaaa tttagtaaga tcaaattaca 180
tagttaaact caaaaaaatg cttttggtct cttagcccc tcccncgga tatttgggtct 240
tagtttttta ttttcaaact gatgaattaa aaaccaaatt ttgaaatgac taatttatat 300
tttaacatta aatataaaaa aatatttaca aatcattatt caataatatt tcattaatta 360
aactnaattt gaagatattt ntaactaaa aaagacaaat acatgtgggt ggtatattta 420
atttaattt ttttaattat taacacaaca accttcctt aaagagaaag tgattacaaa 480

1052

ttt

483

<210> 2448
 <211> 389
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2448

tctggtggga catcttgact ggctntccaa tctgactatt acctcatatt ctgccttctt 60
 ctattttcag attgggaatg cctctaacag cacctttgtc aatgattttc ttcatgcctc 120
 ttaagtgcag atgtccaaat ctttgatgcc atattctgac ttcattcttct ctggagaata 180
 gacatgtgga ggagtaactg gtttcttgag gtgtccatag gtaacagttg tcctttgatc 240
 tgctgccctt cattaggact tcaactcttct catttgacac caagcattct gactttgtga 300
 agtttacatt gaatccttca tcacacagct gactgatgct gatcaagttt gcagtcagtc 360
 ccttcaccag cagtactttt gtccagact 389

<210> 2449
 <211> 457
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2449

ctaagcttac atcttcctga gtagctgcc a ttggttgat ttagcactt ttataccttc 60
 taaaggaaca agtatagctg gtaaattgtt tgtttgctctg tgatgaattc ctatggtatt 120
 ctctttttat agagctagga atcaggacta gctagtattc agcagatagc taatcaatta 180
 gaaaagatat acctatatac atatcatggg tatagtcaat agtggggacg ataacaaaaa 240
 aatgggaaag tgctaccgtg tattaaattc attttgattg ctgcgtatga atgcggagac 300
 attgcacatg agaaggatct aganaaaata tgaaaaaact nttccctatc aagaagaatc 360
 ctcagagnta acaaagtggg aaaaataaat gatgtaagag attgcgtaaa ccgtgtagag 420
 aagattcctc taatatactc gatcctcaat caaatat 457

<210> 2450
 <211> 227

<212> DNA
<213> Glycine max

<400> 2450

gctgtacatt caatttcgag cgttccgata tattacggga ctcaattgta catccgagta 60
attagttatc gtcgcttgaa ttgctcaga gcttcaacat tcaatttcga gattttcgat 120
atattacggg actcaatcag acatccgagt aaaaagttat tgtcgtttga atttgctcag 180
cgcttccgta ttcaatttcg agcgtctcga tatattacgg gactcaa 227

<210> 2451
<211> 262
<212> DNA
<213> Glycine max

<400> 2451

ccttcacetc ttcggtgtgg caagcttggt ttcttttgtg ttaggatatc tacatcgtct 60
gcctcagtca ttgtggtgca gtttatatat ctgttggaaca acttcactta atgccacatt 120
gatttaagat gaaatctaac atgatatcag agcttatagt ccggcttagt tctctctacc 180
atgttggttg taaaagcagc agtacctgag attctcattc agttggttgc tcttagaaga 240
gccctacata ctactaatct ca 262

<210> 2452
<211> 288
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2452

agctctgaat gcactattca tgtttttgac aagattatct tcagactgat caacacttgc 60
acagtggcca aagatgcatg ggagatcctg aaaatcactc atgaaggaac ctccaaagtg 120
aagatgttca gattgcaact cttggctaca aaattcgaaa atctgaagat gaaggaggaa 180
gagtgtattc atgacttcca catgaacatt cttgaattgc caatgcttgc actgccttgn 240
gagagaggat aacagatgaa cagctggtga gaaagaatct tatatcct 288

<210> 2453
<211> 374
<212> DNA

<213> Glycine max

<400> 2453

ctgcataccc caaggatcca ttaggaaatt acttgtgaaa gagatccatg aggggtgggct 60
catggggccac tttgggatag acaagaccct tgtcttcctc aaagaaaagt tttattggcc 120
ccatatgaag aaagatgtcc ataagcattg cactaggtgt gtggcttggt tacaagccaa 180
gtctacggtg atgcctcatg ggctatacac acccttaccc atcccatctg caccttgggt 240
agacattagt atggactttg tccttgggct tcctagaacc caaagagggt tagactctat 300
ctttgtggtg gtggataggg ttagcaagat ggcacactct ataccatgcc acaaggtgga 360
tgatgcttcc caca 374

<210> 2454

<211> 385

<212> DNA

<213> Glycine max

<400> 2454

ttcggagcgt cgcgatatat tacgggactc tattggacat tcgagaagaa cgttattgtc 60
gtttgaatth gatacgagct tccgttttca atatggagca tctcgatata ttacgggact 120
caatcggaca ttcgaataaa aagttatcgt cgcttaaatt tgcttagagc ttctattttc 180
aattcggagc gtctcgatat attacggcac tgaatcagac atccatgcta aaaagttaat 240
gtcgtttgaa tttgatacga gcttccaatt tcaatttggg gcgccgcgct atattacggg 300
actctattgg agatcccaga aaaaagttat gtctcgttga aattgatatg agctcccata 360
ttcaatttgg agcgtcttga tatat 385

<210> 2455

<211> 379

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2455

cttgatgcca tggatcaacct agtaacttag cttgtcatga atcagaaatc tgcattctgca 60
cctgtngcaa gagtttgagg tctatgttct atagcagatc accatataga tctttgtcct 120
tctttgcaac aatctggagt caatgagcaa cctgaagctt atgctgcaaa catttataat 180

agacccccctg agcagcaaaa ccaacaacaa caaatacaat ctatggtgga ggaatcatcc 240
 aaatatgaga tgggcaagtc ctctacaaca acaatagcct gtcccttatt tccaaaatgt 300
 tgctggtcca agcaagccat atgttctctc tgcaatgcat cagtagtagt aacaacaaca 360
 acaaagacaa caagcaact 379

<210> 2456
 <211> 422
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2456

agctatagaa gaccngggaa ntatttattg ttgtgtggnc tggatcttct gttggactag 60
 tttgaccctt ttgcttgaca ccatgtggcc caagtactcc acctgngttt gggcgaagga 120
 acatttcgag agcttaatga agaactggcc ctgcaacaaa accttgaaag ccaattccaa 180
 atgaagtaaa tggtcattga aggagctact ataaattagt atgtcgtgat gtggacatca 240
 aagcccaagc ccatgacaac caccagcccc aggcccatga ctagatggaa gcccaagacc 300
 caatacaagg cataggaaga cccatgacaa gagcaagagc taaaaaggca caagatgctt 360
 tggaacatat ggtgattatt ctgagggtag ttcaaagca gggagaggcc caacacttgg 420
 ag 422

<210> 2457
 <211> 416
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2457

agcttggttc ccaacgcttt gttcatactc tcccataacc tagaggtgaa tctaggatct 60
 ctatcagaca ctatgctaga tgacacacca tgtaatctaa caatcttact aatgtatagg 120
 gaggccaact tctctaagga aaacctaata ttgatgggga taaagtgtgc agatttggtc 180
 aatttgtaa caataacca aatagaatca aaacctttgg gggcatagg tagtcctaaa 240
 tcgaaatcca tggagatacc gtcccacttc cactgnggta tctctaaggg ttgtaactta 300
 cctgaaggtc tctgatgttt atcttagcct tatgganact aaacatgaat acacaaactt 360

cctaaccact cttttatgtg ggccaccaa acattatctt tagactctaa tacatc 416

<210> 2458
 <211> 416
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2458

ctgatgtaac cattggagag gttaatgaaa caacgatatg atgctctcca tgagaggttg 60
 gatcaaatgg agaatagaga ccatatgaat tgctcaagag cttccattgt tcaatttcga 120
 gcgtctagat atataatgcg cctcaatcgg acctccgagt taaaagttat gaccatttga 180
 aatgctcaag agcttccatt gttcaatttc gagcgtcacg atatattatg cacctgaatc 240
 ggacctgcga gtgacaactt atgaccattt gaatngctca agagctctca ttgttcaatc 300
 ttgagcgtct cgatatatta tgcgcctgaa tcggacctgc cagtgacaac ttatgaccac 360
 ttgaattgct caagagctct cattgctcaa tttctagcgt ctcgatatat tatgcg 416

<210> 2459
 <211> 377
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2459

agctntcact cggaggcccc atttatgccc ataatatatc gagacgctcg aanatgaaca 60
 acggaagcta tcgagaaatt caaatggtca atacttcgaa ctccggaggtc ctattaaggt 120
 gcataatata tctagacgct caaaatttta caatggaagc tctntggcta taaaaatggt 180
 cataactttt cactcgaagg tccgattaag gcgcataata tatcgagacg ctcaaaattg 240
 aacaatggaa gctcttgagc aattcaaag gtcataactt gtcactcgga ggtccgattc 300
 aggtgcataa tatatcgaga cgctcgaaat tgaacaatgg aagctcttga gcaattcaaa 360
 tggtcataac ttgtcac 377

<210> 2460
 <211> 421
 <212> DNA
 <213> Glycine max

<400> 2460

agcttaagca cgagtaaatt gctacatgct taagttgtgt ttaaggtgca tccttaaagt 60
gtatgcttaa gaaagttatg caaaatgctt ttttttttaa aaaaatggta ttccaagtgt 120
gataaaatga aaattgggttc atgatatgag tatttatata tagtatggag ttaattgtat 180
gctaatatca tgcacttcac attcatatga ggattttgat gtgggtgattg taaaaattca 240
tggtgttggg tgtcttacta tgcttaacaa actattgatg gattcataag tgtgatgaat 300
atatgaatgg ttaacttatg atatggtaat ttgatgaaat atcgttataa tgaaaagata 360
attatattga taagataatt atgtaaatta ttgaatgtct gagttatgtc gggttaattt 420
c 421

<210> 2461

<211> 374

<212> DNA

<213> Glycine max

<400> 2461

ccatgaatca gaaatctaca cctggtgcaa gagtctgtgg tctatgatcc tctgcagatc 60
accatacaga tctctgtcct tctttgcagc aatctagagt caatgagaaa cctgaagctt 120
atgctgcaaa catttataat agacctctc agtagcaaaa ccaacaacag tagaataatt 180
atgacctttc aagcaacaga tacaatccag gttggaggaa tcatccaaat ctgagatgga 240
caagtcctcc acaacaacat cagtctgtcc tttctttcca gaatgttgct ggtccacgca 300
agccttatgt tctctctca atgcagcaac acaaagaca acaagcaggt gaggcctcct 360
tttcaacctt ctta 374

<210> 2462

<211> 340

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2462

cggacatccc agctngaggt taatctcaaa gctctattat catattcttg ttagaggact 60
tccaaagcta tcgtatcaag attcattttg tgtagcttcc caaaaaggga agcaagtta 120

aagttctttt aaagccaaaa aaaatctttc cacttctagg ccttttagag ctctacacc 180
 ttgacctttt tggaccaacc aagaatacac ccctctttgg atgcangtat ggtctggtca 240
 tagtggacga ttacaccaga tggacatggg ttaggttctt aaccacaaag gatgagtctt 300
 ttgatacctt ttataaactt tgtaaagat tcaaatgaa 340

<210> 2463
 <211> 185
 <212> DNA
 <213> Glycine max

<400> 2463

taccatcaga tccgagtga gcttgaggat atactaaaga ctgcttttag gacccgttat 60
 ggtcactatg agtatctagt catgctcttt ggtgtggcta atgctccagg tgtgtttata 120
 tacttcatga ataaagtctt tcacccttac ctagatagtt ttgtggtacg attcatagat 180
 gatat 185

<210> 2464
 <211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2464

gcttcanaaa gtcaagcaga acagcttaaa gaagaacaat gtggcgatct ctgatgtaac 60
 caatcatgct cggaagaag agttagaaac tggccgttaa taatttgcatt ctgtaattac 120
 agaacttgat gttgcaaagc aagaactgag taaaattcgt caggggtatg atttatcctt 180
 ggaagcaaga gtttctgctc tcaagcaaac agcagaagct gaagatgcaa tgaaggcaaa 240
 catggaaaga gcatgtgagg taccctaaag aaatttggtt gtgcaggaat cagttgagaa 300
 aatgaatgct gaatctgtcc aagcacatca actgcaagaa gagacattag ccggacaaaa 360
 agttcttaga caatcatatg aagccatcct tgaagaatca aaaaagaag 409

<210> 2465
 <211> 463
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 2465

gtcacctgcg gcatgcaagc ttgtccattg gcaaagttac agaaggccaa tttataaaaa 60
tgatctattc agtcaattat tcttcaccat catttttaat tatctaaagt tcattgggtg 120
gatttaacat taacaattag tcagtcaagt tcaagaggac ttaattacat gggttaaaga 180
atatgtatct ttttttctcc aaaaaaaaaa taagtcctct gatgcatttc ataagttaat 240
ggaaaataaa aggtgtagaa gaaatgcnat taaaggatg aagccatagc aagtgtttgc 300
agtttaccgc ttgaactcan gtgactgctt atatnngtca aactcttgca accattcttc 360
atccgagaaa ggaggagagag taccggtgaa ttccaatcag tcattgaaga ccagatcggt 420
gagtcttgta aactcccgag caccaccatg ctgaacaccc atg 463

<210> 2466

<211> 426

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2466

cacggttgca ccggcctctc tagtgatcct ccaaagtgtt atcctgttca aactgcaca 60
tgagagtgta gtcacctctc acatcaagca gtgcaagaat tatatgagac tgtagattac 120
taggtggaca cgcttcatcg tcaagcattt ctggtgcgtc caaagcatta acttgtaacc 180
tagcccgctt gattgcctcg gcgtcacct gaaggagctn tgagatctgt ggtccaaatg 240
tccgagagaa tatccatgag attttcaata aaaaggacta atgtactgaa tgagaatatt 300
tctatggnga tcaaacaaga agataaagtt aacggctgca ctatagaggt cagataccac 360
attgattagg ataagcaaaa cgcagaaagt ccgtccattg tccaggatat aactcaata 420
tgcaac 466

<210> 2467

<211> 445

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2467

ctatgctgca nacatntaca atagacttcc tcaacctcag cagcttattc aaccacagca 60

gaacaattat gacctctnca gcaacagata caaccctgga tggaggaatc acnctaattct 120
cagatgggtct agccctcaga aacatcagca gaagcctggc tccttcttcc aaaatgctgc 180
tggcccaagc agaccataca ttctcncacc aatccaacaa cagcaatagc cccagaaaaca 240
gccaacagtt gaggtcctc ccgcaacctt cctcaaagaa cttgtgagac aaatgaccat 300
gcagaatatg cagtttcaac aagagaccag agcctncatt cagagcttga ccaatcagat 360
gggacaattg gctacacaat taaatcaaca acagtcccag aattctgaca agcttgcttc 420
tcaaattctgt ccaaaatcca aaaat 445

<210> 2468
<211> 437
<212> DNA
<213> Glycine max

<400> 2468
agcttcatct atggcagcca agttctcagc aactttttaa tataatctcc tagatccgat 60
caattgggtc agtgcgatcc tgcacagcaa tcccttctga gacatcggcg agtgatttga 120
gattgcactt aattaaggcc tcaacgaagt agcaggtttc atctttggtg ttgccctcag 180
gtacatccac cacaaaagat tcaattacca gtgtacctgg ccttccatca ataatttctg 240
gggtggagggg catgatagat gagtagttct gaaagataag agatacaact tatgttaaaa 300
aaaattattg tgtcagggtga cacggacaag atagcttaat catttagccc aacttcttag 360
acaggccggg aaaacaaaaa tctatataat tactcatggt ggacgtaatg cttgggtgcgt 420
ctttaataca tgaatat 437

<210> 2469
<211> 335
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2469

agcttganat tgaataatgg aagctctcga gaaatataaa tggtcataac ttttactcgc 60
gattgccgat tcagggtgcat aacatatcga gacgctcaaa attgaacaac agaagctctc 120
gagaaattca aatggtcata agttttcaca tggatatccg attctgtgtt ataatatatc 180
gagacgggtcg aaattgaaca acgactcgag aaattcaaat ggtcataact tttactcgcg 240

atgttcgatt caggcgcata acatattgag acactcggaa ttgaacaatg gacgctctcg 300
 agaaatacaa atggtcataa cttttcactc ggatg 335

<210> 2470
 <211> 477
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2470

tatcccaata acactatcaa catagtatga atnctacact atgagaatcc taattactga 60
 tattctaate atttaacacc ttgaagggca tacatgatat taagtaacaa aagcaagcag 120
 aagcttcttt cccattacca agcaaatgtt ctattctaga cagaacaagg agataaaata 180
 cacctgttaa tagcaattgt ccatttactg tctataaagt cagttgctgc aagtaatgca 240
 gctggccaag ccaaagcagt taagagttag ctcaaacag tcatcattgc ccctcgtttc 300
 atagctccat cgcaagtcct gatgcaagtc acagcaatac taacatcatt cacagcacta 360
 ctaataaact gantacttag ttttataagc acccctaaac ctacaacaat tacttgaagt 420
 aagccaatct tgaattcagt gctcacagaa tcagatcttg actccactga gtgatac 477

<210> 2471
 <211> 492
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2471

agctntgata taacatgata tagttcttca cctatacana tatattaaaa tggagtgaaa 60
 catatacttt ntatcttaga gaaataatgg atactaactt attttattca aaaaatttcc 120
 aagtcgaatc taattgattg tgtggatgca tgtcatttgc gaagataatt atatgtaggt 180
 tatttcatat gtgtacaaag aaacttgtgc tttatcttta gggaaaatgg catcaactat 240
 catatgcatg tgaagacaat ttgcatatat tgctcagttg anagatggac aactaaaga 300
 ggatagaaca aaacatatnt cttctaaagt cttctacact cgatctttga aggaatggtg 360
 atataaacat tcaacaaatt tgttcaagt agaatataac agatntctnt acaaagtctt 420
 ttgctaagga gaactntnta gtaatcggtg cacaagaatt gaacttcgtg tcttatagac 480

aatcatctac at

492

<210> 2472
<211> 427
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2472

tctaaactnt atacaagaat gaagctcaga taccacttgt tggacaagtg gcctcagata 60
tcttaagaag ggggggggggt tgaattaaga tatcacaaac tattccccag ttaaaaattc 120
tacttttaat ttaaccaaac tacccaagat tcctttttaa caagaactcc ttgataataa 180
tgcaaattta tcttactaaa taaaaataat aagcaataaa tagtaaagga gtttaaggga 240
agagaaaatg caaactcaga tttatactgg tttgaccaca cctttgtgcc tacgtccagt 300
ccccaagcaa cccgcttaag agttccacta tcttgcaaaa tccctttaca agatctgaac 360
cacaccagga caacccttcc tttgtgttca gaattcttta caacaagaga accttgggtct 420
cttaatc 427

<210> 2473
<211> 414
<212> DNA
<213> Glycine max

<400> 2473

ctgagcagat tctatcgaca ataactgttt acttggatgt tcgatatagt cacgtaatat 60
atcgagtcgc tcgacataga atacacaagc tgtgagataa ttctgacgac aataactatc 120
tactcggatg tacgattgag tcacgtaata tatcgagacg cccgaaattc aatacagaaa 180
ctctgagcaa attctaacga caataatctt ttacttggat gtccaattga atcacagaat 240
atgtcgagac actcgccatt gagtacacaa gctctgagga gattcagata taaataccct 300
ttgactcgga tattcgattg agtgccgtaa tgtatcgata cattcgaaat agaatacaga 360
tgctgtgagc aaattctaata agaaataact ttatactcgg atgtgcgatt gagt 414

<210> 2474
<211> 225
<212> DNA

<213> Glycine max

<400> 2474

tatgctgtac acatgtatta taaacctcct cagccgcgaa acctacagca atagaataat 60
catgaccttt aaagcacttg atactatcct agttggagga atcatcctaa tatcagatgg 120
gctatttcctt cacaaacaca acagtatata tctccttttc tgaatgctgc tgggccacgc 180
aagccatata gttcttcttc aatgcagcaa ttgcaggaac aacaa 225

<210> 2475

<211> 467

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2475

gtactattat tttgtatata cagtttctac attaggaagc cttgaaaata agctgaataa 60
ttatgataag taggccatta tgtcacaact aagccttcta atctgtcttt ctgaacaagg 120
tgctatttgt ataaatgtct ggcttgtttg tcacgtttag cttatgcatg tacttatata 180
ccaatttcta gagattctgc gaaaccatga ataataacta tgactgcata gctatgccat 240
gtaaatttac aatgtagttg ttggatttcc tttttaaaagt tattagttaa atttatgcat 300
ctattttggt tattggaaga tgtgtatgta tgtcaaactg ggttatgata tcatatacat 360
gatgtgtgga atacatntgt aatttcataa atctctctg atttcatctg atatatntgg 420
gatggaacat actagacttt taatgatgat catttttata tgataag 467

<210> 2476

<211> 396

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2476

atgcatgcta agctataagc tctacaactg aataacactt ggactcttac cattcttctt 60
cctcacaaaa ctgccattgg gtggctgtgg gtatataaaa tcaaataaat aaatgatggg 120
tctatagaaa gatacaaggc acatttagtc acgaaaggat acacttaaac agagggggtt 180
ggattatctc gataccttct cgccagttgc aaacctcacc accattcatc tnccttttcta 240

gctntggttg ctttccatca atggcatctg cgacaactcg atgtgaataa cgccttcctt 300
 cacggtgagc ttaatgaaga gggttacatg catgtntctt ctggacttct agtcacaagc 360
 ccgaaccacg gttggtcgct tcaacgatct ctatat 396

<210> 2477
 <211> 456
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2477

tatntaaaca atatataatt gatgttntgt agtctatgat caatgtacac atgtaacatg 60
 ttataccttt catcattctt ccttcacttt attcttatat tactcttata aaatttatac 120
 ataatgctta ttttttatca acttttagtgc agtgatcagc ctctaatttt aaaaaatttc 180
 cttacaaata tgttgataaa taaaaaatat tttaagttat acgaaatctt tttatcttct 240
 ttaataaaaa atgatataaa atatcttttt gacaattata tttttaaaact tagtttatga 300
 aagaaataat ttattttaat atttctttta tgatttataa attggcgcaa cccgtgaatg 360
 tgtgtctagt tagttttaac agtcaaatac acgttctgta gtattaccac ttaccagtgt 420
 aaatggctag ttcctaaaaa ttctacaata cacttt 456

<210> 2478
 <211> 381
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2478

agcttatcca ganatcgaag cactatgatc ttctgctgaa tattagggttg agaaacattc 60
 tctaggaccc tgagaacaat catagggaaa aaaactccaa tttctgcctt caatccagct 120
 ctaaattctg acaccagact gatgaaaatg gagcatgaca gttgaaacac aatcaaaaga 180
 gttgaagcac tgttcttcaa caaggataga cataagtact gcttgatggc gcctaaaaac 240
 ctgctcatcc acaaccaaatt ttaaccatca ggactatttt tgtcatctgg aaaaattatg 300
 aagtanaaaa aaaatatagt gtcaagtggg gtatagaaca aagaaagaaa atgttaattt 360
 gcattaatga tgagggacaa a 381

1065

<210> 2479
 <211> 390
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2479

ggagggagaa ctggatgcct tgggtcaacct agtaactcag cttgccatga atcagaaatc 60
 tgcattctgca cctgttgcaa gagtttgtgg tctatgttct atagcggatc accctgtgga 120
 gcgggagcat ctttaatgaa ataactctgga gncaangagc aacctgaagc ttatgctgca 180
 aacatttata atagaccccc tcagcagcaa aaccaacaac aacaaatata atctagggtt 240
 gaggaatcat ccaaatttga gatgggcaag tctctacaa caacaatagc ctgtccctta 300
 tttccaaaat gttgctgggc caagcaagcc atatgttctt ccctcaatgc atcagtagta 360
 gtaacaacaa caacaaagac aacaagcaac 390

<210> 2480
 <211> 419
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2480

agctntagaa gaccgtggaa ttagccattg gtgtgtggcc tgtgatcttc tgtggactag 60
 ttngaccctt ttgcttgaca ccatgtggcc caagtactcc acctgngttt gggcgaagga 120
 acatttcgag agcttaatga agaactggcc ctgcaacaaa accttgaaag ccaattccaa 180
 atgaagtaaa tggtcattga aggagctact ataaattagt atgtcgtgat gtggacatca 240
 aagcccaagc ccatgacaac caccagcccc aggcccatga ctagatggaa gcccaagacc 300
 caatacaagg cataggaaga cccatgacaa gagcaagagc taaaaaggca caagatgctt 360
 tggacatatg gtgatattct gagggtagtc aaatgcangg agaggccaac acttggagt 419

<210> 2481
 <211> 371
 <212> DNA
 <213> Glycine max

<400> 2481

gtctgcgccg ggttaaagtc ctacaacgat actcttcaaa tattaagagc cttgtgcagc 60
tgaagaagct taacctactg ggggttaaaga ctcatgattg tcacatggtg atgcaacaat 120
tgtagccgt ggtcatacga gacatattgc ctaacaaagt cagggttagcc ataactcgcc 180
tgtgcttttt cttcaatgcc atgtgtagca cagtccttga tcctgtcaag tttgatgacc 240
tggaatacaa ggctacaatt atactgtgcc agctggagat gtattttcct cctgctttct 300
ttgacatcat ggtccactta attgtttaac tggtcagaga atcaaatggt gtggtcctcg 360
ttatctgtgc t 371

<210> 2482
<211> 379
<212> DNA
<213> Glycine max

<400> 2482
tgcacaacgg aagcactcga gaaattcgaa tggtcataac ttttactcg gatgtccgat 60
tcgcggggcat aactcatcta gatgctcgaa attgaacatc ggaagctctc gagaaattcg 120
aatggtcata acttttcaca cggatgtccg aatttaggac ataatatatc gagacactcg 180
aaattgcaca acggaagcac tcgagaaatt tgaatggtca taacttttca cacggatgtc 240
cgaatttggg acataatata tcgagacgct tgaaattgct ctaccgaagc actcgagaaa 300
ttcgaatgat cataactttt cacacggatg tctgatttgc ggacataact catctagacg 360
ctcgaaattg aacaacgga 379

<210> 2483
<211> 395
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2483

agctnngct ctngcctcac tcaccagcct tttggtttca tttctagcta tcttatactt 60
atcccaaggt tcagaatttc tacatctaga ccactccttg anacactcct tttttactct 120
aactttgctc tgaacatttt cattccacca ccacgattct ttacccttag gtccaaaacc 180
tctagattca cccaacgtct ctttagccac ttttaataatc tcttatctac caaattgtga 240
catccgctg aaaagttatg accatgcgaa tttctcgagt acttccattg tgcaatatcg 300

agcctctcga tatattacgt cccacattct gacatccgtg tgaaaagata tgaccattcg 360
aatttctcta gagcttccgc tgttcagttt cgagc 395

<210> 2484
<211> 388
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2484

acgacaatta cttntactc ggatgtctga atgaatcccg taatatatcg agacgctcga 60
aattgaaaac agaagctcat agcaattgca gacgacaata actgtgagcg gcggaagata 120
ataaatatth cccgnanaca ccgagacgct cgaaattgaa tacaaaagct ctgagcaaat 180
tccaacgaca ataactttta actcggatgt ccaaataaaa cccgtaatat atcgagatgc 240
tcgaaattga aaacagaacc tcgtagcaat tgcaaaccac aataactttt aactcggatg 300
tacgattaag tcccgtata tatcgagacg ctcgaaattg aaaacaaaag ctctgagcaa 360
attcaaacga caattacttt ttactcgg 388

<210> 2485
<211> 306
<212> DNA
<213> Glycine max

<400> 2485

agcttgagca aattcaaacg acaataactg ttaactcgga tgtccaaatg aaaccgtaa 60
tatatcgaga cgctcgaaat tgataataga agtcatagc atatgcaaac cacaataact 120
tcttactccg atatccgact gagtcccgaa ttatatcgag acgcttgaga ttgaaaacag 180
aagctctgag caaattcaaa cgacaataac tttaactcg gatgtccgat tgagtcccat 240
aatatatcga gacgctcgta attgataacg aaagctcggt ggaaagtcaa aagacaataa 300
atttta 306

<210> 2486
<211> 421
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2486

agctatgagc catactattc caaactaaaa cttctgtacc aaatcgacga aagggtgttg 60
aacttgata catactgatg cttttggtat tgcaaaaaaa tggaacatct tagaatgtgg 120
attttggtct aactcaaccc caaaagctat ctcttatggt gagaggtgcc ctccacttat 180
atactctatc ttggtactat cgctagtcaa tgaaggactt ggattgtttt caatacaccc 240
cctcacgtcc aagcactttt gagcttggcg tgtggataac atgggtgggtg accctttgaa 300
tggtatctagg ataggctcta ataccatctt agaatgtggg tttaggccta actcaaccgc 360
aacagctaac tcatanggtg agggtttctt ccacttatat actctatctt ccactatctc 420
t 421

<210> 2487
<211> 421
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2487

agcttggcaa catagttgac acggaaggga tatctnctct atatagaagc ataatatcat 60
ctgcaaaagt caaatgagat agctgaatac atgcacaatt gggatgaaat ttaaaattgg 120
catcatcctt aagactgctc atatctctgg aaaagtactc caaacaagc acaaacagat 180
aagggaagag aggatcccct tgtctaagac cccgctaccc cttgaagtgg ccataaatgg 240
atccattgac tgtgacacta aaggaaaaag ggtcaacaaa aatacaccaa tgaaaacata 300
tttttgtggt gtaagtatat aatagaatca tgttttttgt ttgttaaatg atagcgaaaa 360
agttatcgac ggaaacaaaa tttatntcat atatatacaa acatgtacaa cgagtgaat 420
g 421

<210> 2488
<211> 485
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2488

gggactagct agtgaatggaa tgaatccata tgacaattta agcactcaac atagttcatg 60

gccagttcta ctagtaattt acaatttgct tccttggttg tgcatagaagt gaaaatacat 120
gatgttgtct atgatgatat caggcccaac acagccagga aatgacattg atgtttatct 180
aagtccgttg attgaagact tgacaaagtt gtgggacgag gggatttttag tgtttgatgg 240
gtttcagaat gagattctca aatgtgtgca atgctctttt gtaccattaa tatcattcta 300
gcatatanga atttaagcag ttacagtgtt aagggtcatc atgcatgccc catctgtgaa 360
gaagacacaa gctacatata actgatacat ggtagaaaaa cagtctacac tatgcatcga 420
cgttttctaa aacctcatca cccttacagg gcgatgaaaa agcattaatg gaagtcagac 480
atgaa 485

<210> 2489
<211> 464
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 2489

agcttatcca tgcctcctta gtggatgttg catcanaaat cttctcgaac gcaccatcat 60
ctaatecttg atagatgagg aagagagctt tcttgtctct ctttcttgaa tccttanaag 120
tctattnttg tgcttggggg agtgaagtca ctactagaaa ataaggtttt aacattgggt 180
atntagact ttcaagatcg gttattaaca aatgttgaaa gtaccgacgt tgaaagtatt 240
aacgttaaca tcagtttttg aaaactgatg ttaacgtaaa ataacaacat cagttattta 300
aataaccaat gttatataat aagaattaca aaaaanaggt atatatgttc ataccaacgt 360
tgacagttaa catcgattnt tcattcaaaa ccgatgtaac ttccanacgt taacacgttt 420
aacatcggtt ttttaaaaaa ctgatgttag ttacaaacgt taac 464

<210> 2490
<211> 502
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 2490

ctgagaattc acccaagagg tttagattaa tgcgtgaact taatttgata tcatatatta 60
gatcaaacac tactcattac tagactaaaa gatgtagctg atggtaaaaa taaaattctg 120

ttaatttcct caaagaattt tagagttaca actaacttaa gagtatggaa attaaattca 180
tcatggagta ctgtgagatg ttaaattcat caaattcttg ttggaatcgc gttaacccaaa 240
ttaaataaaa tcaacacatc ttataaagtt ttaaagtcaa tatatagttg aaagtaaaaa 300
ttaactgttg atcatattaa gaattgcaaa gggagaaagc atagccctta aaagtctttn 360
tttttacata aaataaatag taagtttagc attactactt tctatacgta cattntacgg 420
ataatttcat ttgaaaaata atgctactca naataaatgc atatatatta ccatngcta 480
taaactatta caataattat gg 502

<210> 2491
<211> 423
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 2491

agcttcttag tttcagatga tgcagatggg cttgtagcta cctcatgcac tcctctaag 60
actatggcgt ctttctggc gctaaactgt tgggagttgg aagccatctt ctcaattaaa 120
tntttggctt cagcaggagt catgtctcca agggctccac cactggcaac atctatcata 180
cttctctcca ttttctgag tccttcataa aaatattgga gatgaagctg ctccgaaatc 240
tgatggtgag ggcaactggc acatagtttc ttaaactcgt cccagtactc atacaggctc 300
tctccactaa gttgtctaata acctgagata tcttctctga tgggttggtt cctcggaagc 360
agggaaattt tttctaagaa tactctctta aggtcatccc agctcgtgat ggaccttgga 420
gca 423

<210> 2492
<211> 331
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 2492

agcttgtatg gtctanaaca naccccaaga caatggtaca agaagtttga aagctttatg 60
cacaacgaaa gtttctagaa gtgcaacgcc gatcanttgt gtttctttaa gagatataaa 120
tctagttata ttattttgct actttatgtc gatgttatat tagtagttgg atcagacatg 180

gatgaaatta anaacttaaa gatgcggtta taaaaaaaaa ttgacatgaa gcacttagat 240
ctagcaaaga agatccttgg tatgcaaatac acgaaagata agtaaataagg gattttgcag 300
ttatctcagg taaagtacat caatcgtgtt t 331

<210> 2493
<211> 228
<212> DNA
<213> Glycine max

<400> 2493

gcgtctcgag atctgatgag cctgagtcga acgtccgagt gagaagaggt gaccatccaa 60
atttgtcgag agagtacggt gctcaatgtc aagcgtactg atatattatg tgcctgaatc 120
ggacatgccc gcgaagaggc atgaccattt gaagttctcg agagcctacg ctgtccaatg 180
aacaacgtcc gcacctgtga ttgacctgaa tcggctctcg agcgcgtg 228

<210> 2494
<211> 428
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2494

agctnggctt cattcctgcc ccacttctaa tacttttatac attntctaaa ggtttaattg 60
cattttaaga aaattatgtg acaattttaa agtaggagac aaaaaattgc ggataagaat 120
agattagatc atccgtagg tatctatggt ctcaccaata ataagcttat gttatatcat 180
acttctttag aaaataaata ggtaagacc ttttaaaagt ctatttagtt aaaaaaatt 240
ggactctatc acttaaaaaa tcttttagac ataatagatc aatcttagtg ttattattat 300
attaaatttg ttatgatata ttgaatactt gttatcggg aacatttggt tcaagacatc 360
ttttanttgc gaaaatgtaa gagtgagaat tattattntc atatctttta gaagggtatg 420
acaatata 428

<210> 2495
<211> 440
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2495

ctcagcttca cattcaactt cgagcgtctc gctatattat acgactcaat tagacatccg 60
agataaaaga tattgtcggg tgaattntct cagagcttca acattcaatt tcgagcgtct 120
caatatatga cgggactcaa tcagacatcc gagtgaaaag atattgtcgt cttaattggc 180
tcagagcttc tacattcaat ttctagcgtn tcgatatatg accggactca atcaggcatc 240
cgtgtaaaaa gatattgtcg tttagagttgg ctcagagctt caacattcaa tttcaagcgt 300
ctcgatatat tacgggactc aatcaggcat ccgatgtaaa agttattgtc gtttgaattg 360
gctgagagct tcaacattca atttcgagcg tctcgatata tgaccggact caatcagaca 420
tccgagtana aagatattgt 440

<210> 2496
<211> 406
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2496

agctntgagc aaattcaaac aacaataacg ttntactcgg atgtctgatt gagtcctgta 60
atatatggag acgctcgaaa ttgaatggtg aagctctgag caaattcaaa cgacaataac 120
tctttactcg gatgtctaata tgagtcctat aatataacga gacgctcgaa gttgaatggt 180
gaagctttga gcaaattcaa acgacaataa ctttttactc ggatgtctga ttgagtcccg 240
caatatatca acacgctcga aattgaatgt tgaagctctg agcaaatnca aacgaacata 300
tatctntaat cggatgtctg attgagtcct ataatatatc gagacgctag aggttgaatg 360
ttgaagctct gagcaaattc anacgacaat aactttcact cggatg 406

<210> 2497
<211> 412
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2497

cttaaaggat atgttgacta ggaaacccaa gtacattcac caggaaaata ttggtgtgga 60
aggaaattat agtgctgtga ttcaaaagat ccttcacccc aagcataaag accttgggag 120

tgtaaccatt ccttgcttaa ttggagaagt cactatggga aaggctctta ttgacctagg 180
agccagtatt aatttaatgc cattcttcat gtgcagaang gtgggagaag tggagatcat 240
gccactacg atgactttac aacttgctga ccgctccatt accagaccat atggagtaat 300
tgaagatgtg ctggtcagag taaaacattt tatcttgccg acagactttg tggtaatgga 360
tatatgtgaa gataatgaca ttctgtaat ttgggaaggc catcatgtaa ct 412

<210> 2498
<211> 305
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2498

agcttgtagc atttgtcctt tatgtgtccc aacatgtcac agtgagcaca nttgggtctt 60
tctttcttga tgtatttccc tttattgata tcacattggt tctttgatgc agaattaaca 120
gaaaatacta tattttctaa agtattggtg ggtgggtgag taaacaacaa tctcctttga 180
gcttcttctt gaaggattag ggagaaaaca ttaccaattg aaggcaaagg atcagagatc 240
aggatctgac ctctgtattt agagaaagaa tcattcaaac ccatcaagaa tgacattaca 300
tactc 305

<210> 2499
<211> 413
<212> DNA
<213> Glycine max

<400> 2499

ttatctaadc attccaatcc actcaaata tacaattgct tattcaaadc attctcaaac 60
attcatttca tgcaaaacaa tccactgcat atcattttca atcaattcac tattcaaaca 120
cgctttatgt acaagcaaac aactcaaagt gctgaaattt aaataactga aattaaaata 180
actgaaatat gacaacgaaa tcagctggaa atataagggtg tttaaccttc accaaaacat 240
cttcaatgac tccatatggc cttgtgatgg agcgggtcac taactggagg gtcattgctg 300
tgggcattat ctctatctct ccaagtcgct ggcacatgga aagaggcatt aaatcgatac 360
tagcttccaa gtctatgaga gctttgcta caacaacctc accaatataa cac 413

<210> 2500
 <211> 445
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2500

ttgagcatan tcaaacgaca ataactctct actcggatgt ctgattgagt cctgtaatat 60
 atcgagacgc tcgacatgga ataccgaagc tctgagcaaa tttaaacgac aataaccttt 120
 ttactcggat gtctgatcga gtcccgaaat atatcgagat gctagaaatc gaatgtcgaa 180
 gctctgatca aattcaaacg acaataactt ttactcggga tgtccgattg actctcgtaa 240
 tatatccaga cgctcgaaat gcaatatcga acctccgacc gattccaaca ataataactt 300
 ttactcggga tgtccgattg agtcccgcaa taatccgaac gctcgatatt gaatgttgaa 360
 gctttgagca aatccatacg acaataactt tctactcgga tgctgatcg agtcccgaa 420
 atatcgagac gctcgaaatg gaata 445

<210> 2501
 <211> 288
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2501

agcttctaca ttcaatttcg agctcttcga tatattactg tactcaatcg gacatccgag 60
 taaaaagtta ttgtagttcg aatctgctca nggcttcggt attccatttc gagcgtctcg 120
 atatattacg ggactcaatc ggacatcaga gtataaaggt attgttgttt gaatctgctc 180
 agagcttcgg tattccattt ctagcatctc gatataattac ggcaactcaat cagacatccg 240
 agtaaaaagt tattgcagtt tcaatatgct caccgcttcg gtattcca 288

<210> 2502
 <211> 373
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2502

acctttagaa atttgaatct aaatttcaca gtctataatc gactacagag tgtatataat 60

tgattaccag agttaaatt caaatctcaa atatgaagag tcacaaactct ttagaaaaca 120
 actgtgtaat cgattacacc attctggtaa tggattacta gtgaggaatt ttcgaaaata 180
 actcccaaca gtcacatatt ntcaaattgtt tttgaatggc catcaaaggc ctatatatat 240
 gtgacttggtg acacgaattt ctagagagag tttttctgaa ctgagatgtc ttatcctctc 300
 aaagagattc ctaggtcaaa cacttgcata ttcaataagg aatcttgatt gattttaatt 360
 gaatatacctt ctc 373

<210> 2503
 <211> 423
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 2503

aatctgtacc tatcacgaga gtctgtggtt tatgctnctc taccgaccac catatagacc 60
 tttgcccttc tatgcaacaa tctggagcaa ttaagcagcc tgaagcttat gctacaaaca 120
 tttacaatag acctnctcaa cctcagctgc aaaatcaacc acagcagaac aattatgacc 180
 tctccagcaa cagatacaat cccggatgga ggaatcacc aaatttcaga tgggtctagcc 240
 ctcaacaaca acaacagcct gctctttcct ttcaaaatgg tgctgggtcca agtaggcat 300
 acgttctnct tccaatgcaa caacaacaac cacagtagca acaacaatag agacaacaat 360
 caactgagac ctttctcaac cttncttaga ggaagtagta aggcaaatga caatacagaa 420
 tat 423

<210> 2504
 <211> 496
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 2504

ttatcaatat atgggtctaa cacanataat taaagggttt aaattgatta tttctagaga 60
 agtagatgat ttccctgaac acaattttta tttgataggt aatatgataa aattactgag 120
 aaagttacga acttagaaat gaagagtaat ttgaagaaat aactttatat ctttgtgtac 180
 tgactccaac tgaattgttt ggatgaaaga aatcatttta tctactaatc atagacaaat 240

tggagtatta ccaaatagatg cacgtattgc caatgtcgta gatataggta ctttgagaat 300
 gtcttcttaa acaccaatgg ctctgatggg cagttttact agagaatttt gtaaagttca 360
 aacctttgaa actgattgaa gaaggtaaga gttcccagaa ggtggagaat gcaagatctt 420
 gaagacaatt agaatcgta tttacgaaca aatgtgggag ctttgagggtg tgtgactgtg 480
 aatgacttgc acacat 496

<210> 2505
 <211> 438
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2505

agcttctaaa ctntgtacaa gaatgaagct ctgataccac ttgttagaca agtggcctca 60
 gatattctaa gaagggggggg ttgaattaag atattccaaa ctgtttcccc taattaaana 120
 tctatttcac tntntactca agttatgaat tcccttaatg acaatcttct taaatattaa 180
 ttcaaataaa gcaacttgaa tatgaatata aagcaataat aaataaagga gattaaggga 240
 agagaaaatg caaactcagt tttatactgg ttcggccaca cccttggtgcc tacgtccagt 300
 cccaagcaa cccgcttgag agttccacta tcttgtaaat tccttttaca agttctaaac 360
 acacaaggac attccttctt ttgtgntaga gatcctttac aacaagagac tcacagtctc 420
 ttaatccctt agagaatg 438

<210> 2506
 <211> 382
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2506

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 gaagcggatg agtctagaag atgctcacca ccatagggtg ccatggataa gagcttggag 180
 gaagaatgag atgaatgaag ggagaggaag agaagagcat gannatttgt gctctaaaag 240
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acctctatatt atagcctaag tgtcacacaa aattggaggg aaattcgaat atcaattcan 360
atttcacttg aatttgaaat tg 382

<210> 2507
<211> 472
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2507

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aagaatttta agttaaaaag tctttttacaa gaaatttact ctctggtaat cgattaccag 180
aggatgtaat cgattaccag tagccaaaac tgatttaca acagctatta aaatttgaat 240
tcaaaatttg ccctgtgtaa tgcattacca tatatggtaa ttcanattnt aaagcttgta 300
atcgattaca catatactgt aatcgattac cagagcagat tttcagaana tattctcaac 360
tgtcacatct ttttatgtgg ttcttgaatg gctatcanag gcctatatat atgtgacttg 420
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<210> 2508
<211> 511
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2508

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tattctatta atagaaagag gcataagact taacttaaac aaaccatcac aaatgtagcc 180
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tcctaacaca tgtgtcatac tcttattccc catgttcaca gtacgcgtgc ttgattctng 420
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aaccaatcat ttgagttaaa acacaattaa c

511

<210> 2509
<211> 437
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2509

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cggcaccgcg tgtcggt 437

<210> 2510
<211> 349
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2510

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caatggtcta aggatggtaa ggtgaggcta ccttgtgtct aacactatag tgttgagaa 300
ctttcttgag ttggaatgta tagatatgag atcctctatc acttataaa 349

<210> 2511
<211> 427
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2511

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gatttggtta gtgtgtgtat attacataga gtttatattht tattaattaa ttgacactaa 180
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atgggttggg tcttgtaaac attgctacga atgtataata tgatatatga gaataagtga 300
agtatgcgat gaattgtgag ctatgaactg tgtagtcaca caactataat actctttaag 360
ggcgacgagt tcatgcgcaa tgagttttgt gatgggcttc actatgggaa ctcgacgagt 420
taatcac 427

<210> 2512
<211> 395
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2512

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cgcgccatgt agcaagctac accaagtaag aagtgtagaa caattagttc ataaggaccg 180
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ccagagacac gctcacgaat accatcaata tctactggag gggcagcaat aaaagcgata 360
ataaatacag aagttgcggc caataaagta tgaat 395

<210> 2513
<211> 289
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2513

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 ggctctctat ttgggtctta accctctcat gcctcttctt tacaaaattct gacctaagat 180
 tcccttcttt atgtataaaa aaagtgtcca gtgggagggg aatgaggtct aacggtgtga 240
 ggtgatngaa cccatagacc aacctcaaag gggacttgtt ggtggtttc 289

<210> 2514
 <211> 332
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2514

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 taaaatttac gaacttcaac tcagatacaa ctggtgaaca taggaagctc caactctatg 180
 aattggagga actgatggtt caagcttctg agaattccaa gctttataag caaaaattaa 240
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 tatttaattc tcgattaaga ttgtttccag gt 332

<210> 2515
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2515

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 aagaatgtat tcatgacttc cacatgaaca ttcttgaaat tgccaatgct tgactgcct 240
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 gatttgacat gaaagtcact gcaatagagg aggccaaga catttgcaac ttgagagtgg 360
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<210> 2516

Year	Age	Sex	Height	Weight	Arm span	Hand span	Hand width	Hand depth	Hand area	Hand volume	Hand mass	Hand density
1971	18	M	170	65	175	18	8.5	10.5	89	1.1	1.1	1.1
1972	19	M	175	70	180	19	9.0	11.0	99	1.2	1.2	1.2
1973	20	M	180	75	185	20	9.5	11.5	109	1.3	1.3	1.3
1974	21	M	185	80	190	21	10.0	12.0	119	1.4	1.4	1.4
1975	22	M	190	85	195	22	10.5	12.5	129	1.5	1.5	1.5
1976	23	M	195	90	200	23	11.0	13.0	139	1.6	1.6	1.6
1977	24	M	200	95	205	24	11.5	13.5	149	1.7	1.7	1.7
1978	25	M	205	100	210	25	12.0	14.0	159	1.8	1.8	1.8
1979	26	M	210	105	215	26	12.5	14.5	169	1.9	1.9	1.9
1980	27	M	215	110	220	27	13.0	15.0	179	2.0	2.0	2.0
1981	28	M	220	115	225	28	13.5	15.5	189	2.1	2.1	2.1
1982	29	M	225	120	230	29	14.0	16.0	199	2.2	2.2	2.2
1983	30	M	230	125	235	30	14.5	16.5	209	2.3	2.3	2.3
1984	31	M	235	130	240	31	15.0	17.0	219	2.4	2.4	2.4
1985	32	M	240	135	245	32	15.5	17.5	229	2.5	2.5	2.5
1986	33	M	245	140	250	33	16.0	18.0	239	2.6	2.6	2.6
1987	34	M	250	145	255	34	16.5	18.5	249	2.7	2.7	2.7
1988	35	M	255	150	260	35	17.0	19.0	259	2.8	2.8	2.8
1989	36	M	260	155	265	36	17.5	19.5	269	2.9	2.9	2.9
1990	37	M	265	160	270	37	18.0	20.0	279	3.0	3.0	3.0
1991	38	M	270	165	275	38	18.5	20.5	289	3.1	3.1	3.1
1992	39	M	275	170	280	39	19.0	21.0	299	3.2	3.2	3.2
1993	40	M	280	175	285	40	19.5	21.5	309	3.3	3.3	3.3
1994	41	M	285	180	290	41	20.0	22.0	319	3.4	3.4	3.4
1995	42	M	290	185	295	42	20.5	22.5	329	3.5	3.5	3.5
1996	43	M	295	190	300	43	21.0	23.0	339	3.6	3.6	3.6
1997	44	M	300	195	305	44	21.5	23.5	349	3.7	3.7	3.7
1998	45	M	305	200	310	45	22.0	24.0	359	3.8	3.8	3.8
1999	46	M	310	205	315	46	22.5	24.5	369	3.9	3.9	3.9
2000	47	M	315	210	320	47	23.0	25.0	379	4.0	4.0	4.0
2001	48	M	320	215	325	48	23.5	25.5	389	4.1	4.1	4.1
2002	49	M	325	220	330	49	24.0	26.0	399	4.2	4.2	4.2
2003	50	M	330	225	335	50	24.5	26.5				

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agcttggagt ttccaagtc caatnncgcc tcttcntatt ccagtcttct tctggcttca    60
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caggtttcca tgttc                                     135

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<223>      unsure at all n locations
<400>      2517
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acttggttgt	gcatctggtc	agagaaatca	aatgttggtg	tcctgtttat	ctacggtgga	300
tgtacccggt	tgagcgatac	atgaagatct	taanagggta	tacaaagaat	ctatatcgtc	360
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<223>      unsure at all n locations
<400>      2518
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1082

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<210> 2519
 <211> 317
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2519

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<210> 2520
 <211> 388
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2520

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 atctggtcag agaaatcaaa tgttgtggtc ttgttatcta cggcggatgt acccagtaga 300
 gcgatacata aagatcttca aggggtctac aaagaatata tategtctag aagcatctat 360
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<210> 2521
 <211> 382

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 2521

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 tagactgtta tcagcactct taccttcttc aagggtcaca acaccctttc taccaactct 360
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<210> 2522
 <211> 388
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 2522

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 atgcaaggca tntattcaac tntctgcaag gcatttattt caccatttgc acggcatttc 360
 atgctatata tattttacata tatacata 388

<210> 2523
 <211> 398
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 2523

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tccaaatctg aggataatgg tgaaagcctg aatatttc 398

<210> 2524
<211> 387
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2524

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gagtcctcgt atatatcgag acgctcgtaa ttgaaaactg aagctctgag caaatcaaac 360
gacaataact tctgactccg atgtccg 387

<210> 2525
<211> 335
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2525

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335

<210> 2526
<211> 298
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2526

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<210> 2527
<211> 461
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2527

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ttaaacggta gtccgattaa ggtgcataat aaatcgagaa g 461

<210> 2528
<211> 450
<212> DNA
<213> Glycine max

<400> 2528

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<210> 2529
<211> 289
<212> DNA
<213> Glycine max

<400> 2529

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tgaataatca tcaataatgg tgataaagta tcattgcttt ctgagagAAC taacatcaaa 180
aggccacaa atatcagtat acacaatttc aagaagctga gtgcttctct gagctccttc 240
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<210> 2530
<211> 431
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2530

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cacagccata taagttaaag atgttcgac cttgcattta tcaacaagtg catccagctt 180
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atggacaaga tatgaatacc ctcagtcaca aattgcaccc ttttgagtac ctttcaatct 360

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tcaatactag t 431

<210> 2531
<211> 385
<212> DNA
<213> Glycine max

<400> 2531

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ggcattgccc aaagtcgaat caaaggcttg acagggctct cttagcccat gctaactaga 240

atagttagta gcttatagga tcccaaagca ataaccacag atggaggagc attcgtcttt 300

ttaaccagtt ttcaaaaacc aagatatcct gcctatcccg aaaaacggac tccctcaaaa 360

caaaaagtag cttcatagca agagt 385

<210> 2532
<211> 201
<212> DNA
<213> Glycine max

<400> 2532

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ttggctgcac aatcttctct aaaattctct tgatttcccg gttagaaatt tctgcctgcc 180

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<210> 2533
<211> 426
<212> DNA
<213> Glycine max

<400> 2533

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atgctatatg tagcaaagtc attgatcctg tcatgtttga tgagctggaa aatgaggccg 180
 caattatact gtgtcagttg gagatgtatt tccccctgc tttctttgac atcatgattc 240
 acttgattgt gcatctgggc aaaaaaatca aatgttggg tcctgtttat ctacgggtga 300
 tgtacccggg tgagcgatac atgaagatct taaaagggtg taaaagaat ctatatcgtt 360
 cacaagaatc tattgttgag aggtacattg cagaagaagc cattgaaata tgttcataat 420
 acattg 426

<210> 2534
 <211> 364
 <212> DNA
 <213> Glycine max

<400> 2534
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 tggaacgatt tcgtaaatct cggaaaacta ttgggaaatg ctggtaaaaa cacgaatgcc 180
 aagcagatat aaatttgaat gaagaatgta gagaggcgtg tgaagcaacg gtcgaatttg 240
 ctttgtgggtg aacgtgctat taatgttaag tgattcgttt gggcacgttc agattgcagt 300
 agctgctata attcctctag cagacaaatg cccagcttgc ccctcagttt ttcaaactga 360
 ttg 364

<210> 2535
 <211> 415
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2535

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 tattgagtat ttaagggtta ggggttatgg tatttgaaa attatgattt tttgttacat 120
 cccaaattac caaataaggg tatttgacta gtaagggttt acggatactt gacaaattac 180
 ggttacttga ctaagtaagg tttacgggta tttgaaaaaa ttaggggttt atgggttaatt 240
 gacaaatcgg ggcttatgtg tatttaacta attacgggtta cttgaccaat taaggcggtta 300

gggttactttt acaaatactg ngttaggggt. atttgactaa taacgggttaa tgggtagttg 360
agtaattatg gtttattggtt acttgaccaa ttaacgctta ggattatttg actaa 415

<210> 2536
<211> 391
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2536

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aaaagcttac taaggcacct attctagctc ttctgactt ttctaaaact tttgagctag 180
aatgtgatgc ctctagagtg ggagttggag ttgtattggt acaagggtggg caccctattg 240
cttatttttag tgaaaaactt catagtgccca cccttaacag ggggggttcat agaactacca 300
agaagtcccc ttttgagggt gtctatgggt tcaatccctt aacaccgtta gacctcantt 360
ccctccacta gacacttctt tatacataaa g 391

<210> 2537
<211> 297
<212> DNA
<213> Glycine max

<400> 2537

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gtctgaattg gctcagagct tcaacattca atttcgagcg tctcgatata tgacgggact 120
caatcagaca tccgagtaaa aagctattgt cgcttgaatt tgctcagagc ttcaacattc 180
aatttcgagc gtctccatat gtgaccggac tcaatcagac atccgagtaa aaagatattg 240
tcgtttgaat ttgctcaaag catcaacatt caatttcgag cgtctcgata tattacg 297

<210> 2538
<211> 366
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2538

GenBank accession number: U00096.1 (H. pylori strain NCTC 11637 genome) (1,000,000 bp)
Accession number: U00096.1 (H. pylori strain NCTC 11637 genome) (1,000,000 bp)
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gcttgagcaa attcaaacga caataacctt ttactcggat gtcntgatga gtcccgtaat 60
 atatcgagac gctcgaaatt gaatgttgaa gctcttagtc aattcatacg acacataact 120
 ttactcggga tgtctgattg agtcccgtca tatattgaga cgcttgaaat tgaatgttga 180
 agctctgagc caattcaaac gacaataact ttttacttgg atgtctgatt gagtgccgta 240
 catatcgaga cgctcgacat tgaatgttga agctctgagc caattcatac gacaataacc 300
 ttttacttgg atgtctgacg gagttccgta acattttgag ctcttcgaat tgaatggtga 360
 agcttt 366

<210> 2539
 <211> 362
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2539

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 ctgtaaagac ttgcaacttc tctatggacc aagctagaga agaaaggaag ttgcaactaa 120
 gtgagctaga tgagatccgt ttagaagcct atgagaattc caaattctac aaggagaaga 180
 caaggaagtt ccatgacaga ttcatagcta agaaggactc tgtggttgga caaaaagtn 240
 tattgtataa ctctatgctc ggactcatga gtggtaagtt aagggtcaaag tggattggtc 300
 cttttgtggt gactaatggt tttccttatg gtacagctga gatcaaaagt gaatccacag 360
 at 362

<210> 2540
 <211> 482
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2540

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 agaggcaata gatttaaata tttgggaagc catagaacaa ggaccttatg ttccctctat 180
 aatagctgga agtgcaacaa tagaaaaacc tagagcagat tggactgagg aagaaagaag 240

attagtacaa tataatttaa aggccaaaaa tattattaca tctgccttag gaatagatga 300
 atacttttagg gtttcaaatt gtaaaagtgc taaggatatg tgggatacac tacaagtaac 360
 acatgaaggc acaacagatg ttaaaagatc taggataaac actntaactc gtgaatatga 420
 actttntagg atgaatgtaa atgaaagtat acaagacatg canaagaggt tcacacacat 480
 ag 482

<210> 2541
 <211> 387
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2541

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 taaccaccag tggcatgata acccagcagt atcattatct gacttatgct atctaacttc 180
 tttctcaact gatcaggcac atgtttataa caaatanagc caaaattttt aaaatgacta 240
 accactgggt tgtgtncaaa ccattgcttct tcaagtgtga tgttattgag cctttattgt 300
 gggctctcat ttatcacata cactgcactg gagatagcct ctgcccatag aaaatttggc 360
 agcttctttc cattaagcat gcactctg 387

<210> 2542
 <211> 467
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2542

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 atcctcttgc ctaagtcccc tttgaatatt aaattcttta ctggaactac cattcacaag 120
 gatggatatt gatgcgaatt caactcctca tataatccac ccaatctatt tctcacaaaa 180
 acccaacctc ttcatcatat aatataaaaa ctctcaatta gtcgattcat atgctttttc 240
 acaatcaact ttaaataaca aacaatcttt tttcctcctc cttacatcat tcaccacttc 300
 atttgcaacg agaaccccat caagcaaant tcttcttccc ataaaagcac attgcctttc 360

1092

atcaataacc tgtcctaaca ctatttttag ccttgtagct aacaatnttg agattacctt 420

atacaagcaa cctatcaagg aaatatccaa aagccttgag gattcac 467

<210> 2543

<211> 314

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2543

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atcgaacacgc tcgaaattga atgttgatgc tctgagccaa ttcaaacgac aataatattt 120

tactcggatg tttgattgag tcccgtaata tatcgagacg ctcgaaattg aatgttgatg 180

ctctgagcac attcaaacga caataactct ttactccgat gtctgattga gtcccgtcac 240

atatcgaac gctcgaatt gaatggtgaa gctctcagcc aattcaaacg acaacaactt 300

tctactcggg tqtct 314

<210> 2544

<211> 332

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2544

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taaaaagata ttgtcgtttg aatttgctca gagcatcaac attcaatttc gagcatctcg 120

atacgtgacg ggactgaatc agacattcga gtaaaaagtt attgtcgttt gaatttgctc 180

agagcatgaa cattcaatnt cgagcgtctc gatatatattac gggactcaat caaacatccg 240

agtaaaagat attgtcgtnt gaatttgctc acagcatcaa cattcaattt cgagcgtcta 300

gatatgtgac gggactgaat cagacatccg ag 332

<210> 2545

<211> 476

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2545

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 gattttctcaa gaaaagtatg gttgtatggt ttgaaaaata agtcagaagc ttttcaaaaa 180
 ttcagagaat gacatactct tgttggaat caacttgga caaaattaaa agctttaaaag 240
 actgacaatg gcctgtagtn tgtttcacag cagttcaatg agttttgcac gaaaataggc 300
 atcaaaaggc acaaaacagt tcctcacaca ccacaacaga atggtttagt agaaagcatg 360
 aataggacca ttttggaag agttagatgc atgctactaa gtgcacgact gccaaagaac 420
 ctttggggag aagctgcana tacaacagca tatttgatta atagatgtcc ttcac 476

<210> 2546
 <211> 297
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2546

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 tccatgctat atgtagcaaa gtgattgatc cactaatgtt tgatgagttg gaaaatgagg 120
 ccgcaattat actgtgccag ttggagatgt attttcccc ttactttttt gacatcatga 180
 ttcacttgat tgtgcatttg gtcacagaaa tcaaatggtg tggctcctgnt tatctacaga 240
 ggatgtaccc ggctgagcga tacatgaaga tcttaatagg gatacaaaaa tctatat 297

<210> 2547
 <211> 428
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2547

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 gctaggagaa tgtaacata accaaaagag acaggaaaat ggcccatgaa atctatgcc 120
 cagacatcaa acacctcata gaatagcata gggtgctgag gcatttggtg tcgccatgta 180
 agtgcacttc ctgctctctg aactgctca caagtgtac aaatcttcca cacatcttta 240
 aagatggtgg gccataaaaa gccacagtca agcactttgc gagctgtcct ttgaacttcc 300

agtgcggaag aatggcanaa ctgcaggact gagtcagtct catgatctgg gatgcatcgt 360
 ctaatgacct gatcactgca caatttccac aagtaggcgt catcccaaataaaaatgctta 420
 gcatcact 428

<210> 2548
 <211> 337
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2548

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 ccatnttatg ttgaatgtga tgctagtggg gttggcatcg tggctgtttt gatacaaaac 120
 aaaaggccta tagcttattt ctgggagaaa ttgggaggag ccagattgaa ctattgcacc 180
 tatgacaatg agttctatgc cattgtgaga gctcttgatc attggaatca ttatttgcgt 240
 tctaatact ctatatggca ttcagatcaa tagtcataga agataataat gggcaccaaa 300
 gttattccaa gcttgctaatt gggatgaattc ttcaatc 337

<210> 2549
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2549

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 aattgatctt tggagccgac aaaatcaatg gtgatttctc ctgagagtac cttctattga 120
 acaaagtgc catcaatctc tatgtgttta acctgctcat gaaagactgt gtttgaagca 180
 atgtggagag caacttcatt ttcacataat agtgtggtat tctaaatgtc tccaaatttt 240
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 tactcgactt cggcattgga tcttacaacg gttttctgct ccttgcttct ccatgagatc 360
 aagttccctc caataacgac ataatatcta gaagtagacc ttctatctaa tgggtgatcct 420
 tgccaatcag catc 434

1095

<210> 2550
 <211> 346
 <212> DNA
 <213> Glycine max

<400> 2550

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 tatatcgaga cgctcgaaat tgaatgttga acctctgagc caattctaac gacaataaca 180
 ttttactcgg atgtctgatt gagtctcgta atatatcgag acgctcgaca ttgaatgttg 240
 aacctctgag cctattcaaa cgacaataac tgtttactcg gatgtccgat tgagtcgcgt 300
 aatatatcta gacgctcgaa attgaatgtt gaacctctga gccaac 346

<210> 2551
 <211> 343
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2551

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 atatatttcg ggactcaatc agacatccga gtaaagagtt attgtcgttt gagttggctc 180
 agaggttcaa cattcaattt cgagcgtccc gatatattac gtcactgaat cagacatccg 240
 agtaaaaagt tatngctcgt tgaattggct ctgagctcca acattcaatt tcgagcgtct 300
 cgatatatta ctggactcaa tcagacatcc gagataaaaa gta 343

<210> 2552
 <211> 397
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2552

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 cgaagttgaa tgttgaatct ttgagccaat tcatacgaca ataacttttt actcggatgt 120
 ctgattgagt cccgtaatat atcgagacgc tcgaaattga atgttgaagc tatgagccaa 180

ttctaacgat aataactttt tactcggatg tccgattgag tctcgtata tatcgagacg 240
 ctcgaaattg aatgttgaag ctctgagcct attcaaacga caataacttt ttactcggat 300
 gtctgattga gtgccgtaat atattgagac gctcgacatt gaatgttgaa cctctgagcc 360
 aattcatagc acaataactc ttactcggga tgtctga 397

<210> 2553
 <211> 240
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2553

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 taaaaagtta ttggcgtatg aattggctca aagggttcaaa attcaatttc gagcgtctcg 120
 atatatttcg ggactcaatc agacatccga gtaaagagtt attgtcgttt gagttggctc 180
 acaggttcaa cattcaattt ccagcgtccc gatatattac gtcactgaat cggacattcg 240

<210> 2554
 <211> 393
 <212> DNA
 <213> Glycine max
 <400> 2554

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 tggcagggat atcaacgtct ctagtgggtc cctaagattt ctgaaatttt tcctctgttt 180
 gctttgttag ggtttccaag tgtagagag aaggagaaga aattggagcc tccaattcac 240
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 acaaagcccg ggatcgtagt tttcttggga ttg 393

<210> 2555
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 2555

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atctgaagca attgaacaac ctgaagctta tgctgcaaac atctataata gacctcctca 180
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gcccagggtgg aggaatcatc ccaaccttaa tggctgaatc cttcacaaca gcagcaacaa 300
caacaacaac cttattttca aaatgctgct ggcccaagca gaccttacgn ttcttcacca 360
atccagcaac aacaacaaca acaacaacaa cccatagaaac aac 403

<210> 2556
<211> 433
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2556

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cagtatgcaa tattagtatt tgaatgtgaa aaaatgaaat gtggagccat gcatgtttaa 120
tggaataattt aaaatgtact atcaaaatat atttacaact ntaattttta ttgtaattat 180
aatgtttgaa aatatatctt gtccctatat ttacactcaa ttttggtttt agtttagact 240
ttaaaaaact tgatttattt ccttaatatt agtgatagac gaagaaatta atcttacatt 300
ataaatataa tactcatata cataaatttg tggagacaat atttatacta attatagatt 360
ttnttatatt acattttaga caatgaaaac atacgtacat gcacacgaag cttgaacaaa 420
atgagatcac ttg 433

<210> 2557
<211> 386
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2557

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ctcgagacac tcggaattga ataccgaagc tatgagcaaa ttcaatcgac aataaatctt 120

tactcggatg tccgattgag tcacgtaata tatcgagacg ctcgaaattg aataccgaag 180
 ctctgagcaa attcaaacga caataacttt ttactcggat gtccgattga gtcccgtaat 240
 atatcgagac gctcgaaatg gaataccgaa gctctgagca aattgaaacg acaataaatc 300
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 agctctgagc aaattcacac gacaat 386

<210> 2558
 <211> 391
 <212> DNA
 <213> Glycine max

<400> 2558

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 tatatatattc aagactcaat cagacattcg tgtaaagagt tattgtcgtt tgaagttgct 120
 caaatcttca gtattcaatt tcgagcatct ggatatatta catgactcaa tcgacatcc 180
 gagttaaag ttattgtcgt ttgactttgc tcagaacttt aacattcaat ttcgagcgtc 240
 tgtatatatt acgggactca atcacacatc cgagtaaaaa gttattgtcc gtttgaattt 300
 gctgagagct ctaacattca attctgagcg tctcgatatg ttacatgact caatctgaca 360
 tctcgagaaa aagttattgt cgttttaatt t 391

<210> 2559
 <211> 475
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 2559

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 agagtggaga ttttaggaca ctcttcttgt ctttatcaaa aactttcagc atgttgtcct 180
 tcatctccat tgtataacc ttttcaagca attgtccaag gctgagtaaa ttgcttttca 240
 tcttgggagc atacaagaca tttgagatgc aggttttctt tccatctttt ctttgaatca 300
 tcacgctccc tatcccttct gctgtaattg agctgtgatc tgcgaatttc actatgcttt 360

tggaagtctc atcaagtgtt gtgaaccact ctcttctccc tgacatatgg ttngagcaac 420
cagtgtctag gtaccagaaa atagcacact gaagaatcat ttttgtggaa ccac 475

<210> 2560
<211> 476
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2560

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gttttctcaa atcttccaaa gttgattggc atttctatga cccatatatg ttacagttac 180
caaaaagggtt caaagagaaa accaaatggt gtggaatagt aagccccggt tgggcacccat 240
agttgaagggt attgagccac aacgcagttg gtgggggtttt gactcactct ggttggacct 300
ctgtgggtgga ggttgtttat aatgaaaaac ctctagtttt gttaatgttt cttgcagacc 360
acggattgaa ctcgagggtg ttggaagtga agaagatggt gtattcaatt cctaaggatg 420
aacaagatgg atcattcacg agtgatgcgg tcgctaactt aataccgttg gtatgg 476

<210> 2561
<211> 459
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2561

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gagtcttagg tagggatat taaataggaa gggaatttct aattgaagta gcaaaagggt 120
tggccaagaa atttaagtta aaaagtcttt tcaagagatt tactctctgg taatcgatta 180
ccagaggatg taatcgatta ccagtggcca aaaatgattt acaacagcta ttaaaatttg 240
aattcaaaat gtgcactgtg taatcgatta cacatatatg gtaatcgatt accagcagtt 300
attgaacgtt ttatttcaaa ttntaaagct tgtaatcgat tacacacata ctgtaatcga 360
ttaccagagg agattntag aaaatattct caacagtcac atcttttcat ttggttcttg 420
aatggccatc anacgcctat atatatgtga cttgagaca 459

<210> 2562
 <211> 445
 <212> DNA
 <213> Glycine max

<400> 2562

agcttccagc tttccaccta tatggatggt ctgagcgtga atacactttg tacgcgtcca 60
 gtctagtctc tctaagccct gaaaccgtaa ctatagctat gttctgagat tcgccttttc 120
 tgctgatcag agagctctcc gaatcctttt ctttcgaagc ggcattgccc aaagtctaata 180
 cacaggcttg acaggggtctt cttagcccat gctaactaga atacttagta gcttatatga 240
 tcccacagcg ataaccactg attgaggagc attcttcggt ttaaccagtt ttcataaacc 300
 aagatactct gcctatcccg aaaaacggac tccctcatat aaaacagtag cttcatatca 360
 agagtgggtt tgactaatca tatgacaaat gctcggccga agctagagct aagtggctgt 420
 tcacggtaag tatggaaagc atatg 445

<210> 2563
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2563

tttctntgag caaagcanag gcttgctctt atttttcatc ccaggtaaata gccacattct 60
 tcttcacat ctcattgaga ggtgatgcaa ttgtagagaa attaagaatg aaccttctat 120
 agaagcttgc taacccatgg aagctcctaa tatctccac actttttggg gtgggcccatt 180
 cttggatggc cttgatcttc tcaagggtcca cttggacccc atttctacca actacaaaac 240
 ctaagaagac tatattatct actcaaaagg tacacttctc tatatttgca tagagtgtgt 300
 ttttcctaag gactgaaaga acttgccctga gatgtgctaa gtgatcatct aggctcctac 360
 tgtacactaa aatatcatca aaataaaca ctacaaatct acctatgaaa ctccttagac 420
 atgatgcata acctat 436

<210> 2564
 <211> 449
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 2564

agctcgacac atattaacca tattcaaggt ctgtctaagt agtttgtcca aatgtctcca 60
tactagtcac tggagttaac aaacttaaca ctaatttctt taaacaacaa attntctcga 120
acaaaatggc actcaatctc tacatgtttg gttcttttat gaaatactgg attaaaggca 180
atgtgaatgg ctacctgatt atcacaatac aacttcattt gtcgatcaca ntaatttaag 240
tcttgaagaa agttgttaac ccatgttggc cagatcacaa gtaattagag ccacagctct 300
atattttact tcttcacttg actggacaac aatattatgt ttcttgatct tccaagagat 360
aatatnttct ccaatggata cacaatatac agtgggtggat cgtctgtttt agggcaacct 420
gcctaategc attacaatac ctacatatt 449

<210> 2565
<211> 310
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2565

ntcgagaaat tcanatgggc ataactnttc actcggaggt cctattcatg cgtataatat 60
attgagacgc tcgaaattga acaacggaag ctctcgagaa attaaaatgg tcataacttt 120
tactcatag atccgattaa cgcgtataat atatcgagac actcgaagtt gaataatcga 180
agctactgag caattcaaac ggtcataact gttcactcgg aggtccgatt caggcacata 240
atatatcaag acgcccgaag ttgaacaacg gaagctcttg agaaattcat atggtcattt 300
cttttcactc 310

<210> 2566
<211> 437
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2566

acaagtggcc taatgcaatc ctaccccgca agggcattgg atagaagact ccaagtagat 60
tgggccaag atgcaagaaa aggccctatg gttctcatga gccttgaggt agatntcacg 120

cccatgggct aagtatgagc ccacttatct ttgtacatat tagattaagg tttcattatt 180
 tttgggcctt gtattttacgg ctccataatg tacgtaaggt accctaaaca tgtatgattt 240
 ttcacccttc tatttttcggc acctacacta atttttgatt acgggtagtt ttgaatttac 300
 atgcattgtg gaatattcat gtgcgtggtg ggaaaaaact aattgaatgc gagaagccta 360
 tccagttaaa tatagagggc gggagcattt gttgctacac cctaatgcac atcataagta 420
 cactttgtga tgcttac 437

<210> 2567
 <211> 447
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2567

agcttctntg agaanaacttt cttgagaagc tagagtctag ctacacacac ccctctcata 60
 actaagctca cctccttgag aagcttcctt aagaagattc cttaaagaagc tagagcttag 120
 ctacacacac atctctaata gctaagctca cctccttgag atgagaagct agagcttagc 180
 tacacacccc ctataatagc taagctcacc cccatgacaa anaaagatga aaatacaaaa 240
 aaaaaagtcc ttactacaaa gactactcag aatgctccga aatacaaggc taaaacccta 300
 tactactaga atggccaaaa tacaaggccc aaacgaagga gaaacctatt ctaatatnta 360
 caaagataag tgggctcata cttagcccat gggctcaaaa tatactctaa ggctcatgag 420
 aacactaggg ccttccttg gatctct 447

<210> 2568
 <211> 352
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2568

gaactactaa ctgcagtaac agttgcagcc caactatccg gtagtgatga caatagaatc 60
 aatgccttca cctcatcctc aaatntaatc tgcacagatt tcaattgggc aagaatagta 120
 ttaaactcat taatatgatc agctacagag ataccttctc tcattcttgag gttgaacaac 180
 cggcgcatca agtatacttt gttggctgct gacggcttct cgtacatatc tgataatgcc 240

ttcattaagc ctgcagtagt catctcgttc acgatggtga acgcgacgtt cttgggtaat 300
gtcgatctga tcacgcccag agcctatcga tctagcaagt tccattcttc tt 352

<210> 2569
<211> 413
<212> DNA
<213> Glycine max

<400> 2569

tcttagtctc aactgatgaa aatgaattcg tggctacttc atgcactcct ctaatgacaa 60
tagcatcatt tctggcacta aattgctggg agtttgaagc catcttctca attaaatttc 120
tggcttcagc aggggtcatg tctccaaggg ctccaccact ggtagcatct atcatacttc 180
tctccatggt actgagtcct tcataaaaaat attggagaag aagctgctca gaaatctggt 240
ggtgagggca actggcacat agtttcttaa atctctccca gtattcatat aagctctctc 300
cactgagttg tctaatagcct gagatatacct ttctgatggt cgtggtcctg gaagcagggt 360
aaaaattttc taagaatact ctctcgacgt cagcccagct cgtgatggac cat 413

<210> 2570
<211> 385
<212> DNA
<213> Glycine max

<400> 2570

agatgctgct ctatgctaaa tttctgaaag atatgctaac ttggaagaac aagtacatcc 60
atagtacac catagttgtg gagggaagct gcagtgccgt aattcaacgc atcctttcgc 120
caaaacataa ggaccaggc agcgtcacta taccttggtc tataagtga gttattgttg 180
gcaaggctct tattgatttg ggagccaata ttaatttgat gccacttttc atgtgccaaa 240
ggcttgaga gttggagata atgtctacta cgatgacttt acagttagca gatcgctcca 300
ttaccagacc ctatggagta atagaggatg ttttggtcgc ggtcaaacac cttatctttc 360
ctgctgactt ggtggaatg gacat 385

<210> 2571
<211> 462
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2571

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cttttgttat ttttaagtact taattctaata tgcctgattt catggaaaac cctatatattg 120
gtctagaatc tacaattatg ctaggctaata tgtgactnta gtgttacatt gattagttta 180
tttaatgcgt tttggggaaa attactatgt gttatttttt tttgactgga tatatacgtg 240
ttaataaata ttaatatgac ttcacacgct aaaccaatac taagcaaacg ggagatacaa 300
aatttggtag atccaatgct tggaggggct tatgacgtga caccagttaa tagagtagcc 360
tttgctgcct ccctttgcat tagggcatct gcaacttgca gacctatcat gagtgaggta 420
gctcaattat atatgttgca caactttggt gttactttcc ta 462

<210> 2572
<211> 447
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2572

agcttatata gcttcatatt attgatagag acaaaataaa tcatataatt ctatgaaata 60
tataaattta cgtgatgtta tataagtttt ttttaataat ggattgttct gttttagttt 120
ttaaaattga aataaattaa tatgtgttga tttcatttgt attattttta attaaaatgt 180
gttcttagtc tactttttta gcacgttgat tttaatgtgc tgcatacgaa ttgataatat 240
ttagcccat tgtgtgtttt gtcactgttc gcaggaatct tactggaatc ctcaaagtgg 300
gagcctcctg ttccctactt cattaaacac ttctcattat ttatttattt attttcgtga 360
acaataagaa ttaaataatt aataaaaaaa atgatcgata caattagttt attactntga 420
gtctatatat taacaatatg gagtcat 447

<210> 2573
<211> 347
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2573

cctttctttt ctcatgtgca ctcaaacca atctccgggt tcgaagacaa ctttctttct 60

ccctttgatg gcttgtttag catagctcat acttttcttc tcaatttgat ctttgactct 120
 ataatgaagc ttcttcacat agtccgcctt tgcttgacct tctttatgct taaaaacaga 180
 aacattaggc ataggcaaaa gatcaagagg agttagtggg ttaaaacat aaacaacttc 240
 aaggcttaag aaagaagaat catcgatga cgccgatcga acatttctta atatacatca 300
 tncaaattt attcatggat tgaatagaac atacaatagc cgacatc 347

<210> 2574
 <211> 482
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2574

cctataaatc taagcttaca atgtagttct acatctttgc agataatgca aacaattgga 60
 tttctcgggc cagctttctt cttaactcaa ttgagccacg ctaattctcc tgtgatggct 120
 gttttgtgta tgacatgcag tcangtttgc ttcttgtttt gtatttgaga tatttttaat 180
 tctgagaagg cagtctcttt gtaatcctaa cataaaatct gcttatattt gtgtctcttc 240
 ttatatgtat ctggagaaaag ttacttaata cttgtataaa gtttctttaa ttttaagtac 300
 tcacttcaat aattttatta tgattattag ttcatactgc ataactgaa natntgactg 360
 gcaaatataa atattcttgg caatggtgtc ttggaacttc tcttgatgag cataactaca 420
 cattctcatt ttgctaagtc ttcataataa gttagaaagt gttggttcat ccattcattc 480
 ca 482

<210> 2575
 <211> 438
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2575

agcttgtgct ntaacctgcc tcagtaatat aagacacatg tgttaaggcg cctgcgacaa 60
 taaactagct gtgtgtgtgc aagtctgaag gtgaatgttc tttgtttcaa ttctttattc 120
 cttattgtta ttgtcttaat aaggttagaa tagaaaagtt attggaagaa aattaaggat 180
 tagctcacct ttgctgattt gaatagttca tcaagaacct cggacaaagt tggatgtgca 240

tgaactgcaa attntatgtc ctgcattgta ccacaaaacg gtgaaattta ccaaacaagc 300
 aggataaata agagtgaaga ctttgtgact attattagta actaaatgcc aatacacata 360
 aatgtggtag aaaaatttac ctgaatacgt gtccctaattg caattgcatt ggatgcttca 420
 tggatgagat ctgctgca 438

<210> 2576
 <211> 433
 <212> DNA
 <213> Glycine max

<400> 2576

gcagctctta gtctcaactg atgaagataa attcgtggct acttcatgca ctctctaat 60
 gacaatagca tcatttctgg cactaaattg ctaggagttt gaagccatct tctcaattaa 120
 atttctggct tcaacagggg ttatgtctcc aagggtccca ccactggcag catctatcat 180
 acttctctct atgttactga gtccttcata aaaatattgg agaagaagtt gctcagaaat 240
 ctgggtggta gggcaactgg cacatagttt tttaaattct tcccagtatt catataggct 300
 atctccactg agttgcctaa tgctgaaat atcctttctg atggccatgg tcctggaagc 360
 agggaaaatt ttttctaaga atactctctt gaggtcatcc cagctcgtga tggaccttgg 420
 agcaagctaa tat 433

<210> 2577
 <211> 456
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2577

gctttggagt ntccaagtgc caattcgtct tcttcttttag tccagtcttc ttctggcttc 60
 aattcttcag tgggctttcc ttctgtgtcc agcatcttgg gatgttccca gcctttgatg 120
 acagctttcc aggttctgct atccagtgat ttgaggaagg ccaccattct tgctttccaa 180
 tattcatagt tgcttccatc gagaattggg ggtctgttca ctgggtccgc ttctttctcc 240
 atgttcatca gaatttatct ccctagatct cactctgtga ttctgagtgt tggctctgat 300
 accaattgaa attctgatac caggggacag atgtcgtaca ggatgtcacg acatcacgct 360

tcagaacatg cagattatat gtgtccgtat gaacagatta nactagtaaa taacacaaga 420
gaattgttta cccagtgtg tgctacctca cctaca 456

<210> 2578
<211> 415
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2578

gaagaaattg tagctnttcc ctctgttgct ttggactcag ganaatattt cttcaaaaac 60
ttttccacaa ctttatccca agtccttaag ctattacctt tgaatgaatg cagccacctc 120
ttggcttctc tagataatga aaatgaaaat aagctgagcc gaatagcatc ttctggcaca 180
ccgacaatct tgacaatgtt gcatatctca atatatgttg ccaagtgtgc atatgggtct 240
tcattgngta gaccatggaa caaattgcct cgtattaact gaatcaaaga atgtggatat 300
gtgatattgt gggcctgcac ctctggcctt gcaatgcttg taaagaactg tggcacagcg 360
atgctagaat aatcttcaag ggtcaccctg cttggttgct cttcaaccat aatgt 415

<210> 2579
<211> 480
<212> DNA
<213> Glycine max

<400> 2579

tgcaagaagc tctatgtaaa aagttgaagc ttagttcatc ttatcaccct caaacagatg 60
gtcaaactga gagaaccatt cagtctttat aagaccttat gagagcttgt gtaatatgac 120
aaaagggtat ttgggatgag tatttacctc tagtggagtt taccacaaac aatacttttc 180
atgctagtat acatatggct ccatttgaag ccttatatgg gaggaagtgt agaacaccat 240
tatgttggtg tgagactggt gagtctcttt tgatagtgtt gagtctggtt gcatccaagt 300
cacattggac tgtaccaaac aagttaaatt cctgaggttt tgatgttaac aaagtataaa 360
ttttaagtac taacctttca tgcttaagtt acaagctatc ttatctctga gatacaagca 420
gaaaagcatg aacataaagg ttctggacaa taggcaaagt atcagtcatt ggatgatact 480

<210> 2580
<211> 448

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2580

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 cttgtaggcc ttggatcttc ttcataatg gagtcttttg cttcttaaag tttgatagca 120
 gcgtaatgga gaaggagaag ggtgattgga gatgccactt caaggagaag atgagtctat 180
 aagaagctca ccaccatagg aagccatgga taatagcttg aaagtaagag aagatgaatg 240
 gacggagagg gagaaaaggga gcatganatt tagtgcctct aaagaagttt gaactttgaa 300
 gtttaattct cagatgatca aagttgaaaa aatgcacaca catagcctct atatatagcc 360
 taagagtcac acagaattgg agggaaatct gaatgtctat tcacatttta ctagaatttg 420
 acattgaatg gtggagccaa atttctact 448

<210> 2581
 <211> 441
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2581

agctnntaat ttaattgtca taataattag taattacact atattacaac aaagtaaata 60
 tggatccta aagtatnttt actttntcta atcattatag tcaatctcga tgtctaattg 120
 tcccaaaaata atctttgaaa gcatatacta ttaattatct aggggttcgg gatacataga 180
 cggtagtgtt ggaaatctta atctttaatg tttattgatt aaaatatatt ttttccttat 240
 aaatataaaa atgtttgaat tttttttttt tgtaaaattt tagtacatat tttgtcctga 300
 taaaattgaa atgtatcact tttttgcttg aacataagtt tggataaatc taaatctacg 360
 atgatgacct nnttacattg tatacatata aatgatgtaa aatgtgacat tntttatata 420
 ggttgtgcat ataaccgatg t 441

<210> 2582
 <211> 472
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations

<400> 2582

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atgacataaa tagaatgcat ggtcgaacat taaaataatg gcatgtggta ggtcatacat 120
acataatctt tgtataacct gatagaatca aatgaaaagt aagggatata ttacaacata 180
aacaagtata tgaattcatg tcatcagaat agaaatcaaa atattcttta caacataaga 240
taaatagcta aactaagcta tgaactcggt tgagtagtct acgttgggga aattcttaan 300
aatgagagtc ttgtttgtcg aatctatana tnggcagggg tcttctaat acatggatag 360
acaagtgaag attttcccaa gatttacatc aacacacaag cttcnatcca atctatctct 420
tcacaattan aatataatat aacatatatt catattcata ttaatatcat ct 472

<210> 2583

<211> 448

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2583

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gggtcgtcta ttcaatacct gatcatagct tcaagtctag aaacattaac aagggtttat 120
gtgaaatcta tgtcttcttg tgggttaaag ccttgagcta ctaacatagc tttgttcctt 180
actaccttat cttgttcac ccaatttat ctaaatgccc atcttggtcc caagatgctt 240
ttgttctcag gcttngaac aagcatcttg acatcatttc cagtgaacta gtggagtctt 300
tcttccattg caataatcca attattatat gtgattattt catttatcat cttacgttct 360
atttcaaaca tganagcata agacataaga tctttaaaat gatgatctgg ttttgactcc 420
ttcagtctga tcttcaataa tctgatct 448

<210> 2584

<211> 484

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2584

ngcatacaag attctncttg cttgacactt cataaccttc tgggtgggtt atatagatgt 60

cttntcttaa atccccatgc aagaatgcag ttttaacatc taactgctcc aagtgaagat 120
tctctgcagc tattatgctc agaataactc tgatggtagt catctttaca actggagaga 180
agatctctgt gaaatcaatt ccttggtttct gctgaaaccc ttttaccaca agtctcgctt 240
tgtatcttct tctaccgtta gattcttctt ttagcctata gaccaccta ttctgtaacg 300
ctttctttcc ttctggcaat ntagttaaag accacgtctt attcttctga agggatgtca 360
tctcatcttt catcgctagc tccactcaa taatgtcatt cccttggtga gcctcactga 420
aacattttgg ctcaccagca tcagttaaca acaaataatg caatgaacgt gaatacctat 480
ctgg 484

<210> 2585
<211> 484
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 2585

taagccaacc cctnttctca tacaaaacat gttgatgttt tactctatca atcaccaaca 60
agttgaaacc taactatatg caatgattaa gaaaaacaaa gaaaaagagc agggttgcct 120
cccagtaagc gcttctttta cgtcactagt ttgacgcata ttacctcaaa ggtcttgtaa 180
ctacagaatg gtgggtaatc tctcaatgtt cccaccttga tacaacttca acctctgacc 240
atttactatc catgttctgc ttggagtttc tgattgcgga ttaaataatt ccaactgctcc 300
atatggcttg acttcttga tgggtgaatgg tccagaccat ttagactcta tcttgcttgg 360
aaacaacttc aatcttgagt tgaacaacaa cacttggtat cttggcctag agtccttctt 420
tagcagcttc ttgtcatgat aagccttcac ttttctctg tacaatctta aagactcgta 480
tgca 484

<210> 2586
<211> 400
<212> DNA
<213> Glycine max
<400> 2586

acacatatac tgcaatcgag taccatatct atatttcaga aaatattctc aaccgtcaca 60
tctttatatg tggatcttga ctggctatca aaggcctata tatatgtgac ttgagacacg 120

aatgtgctaa cagttctttg gatcacatac gtcttatacct cttaaacagc 'aaaatcgttt 180
tatacctctta caaatacctt ggccgaaata cttgtgattc aataaagaat tatttgagtg 240
ctcaaattgt tcaatctatc tctttcaaga gagatctctt cttttcttct tcttcattct 300
gaaaagggat taagagaccg acggtctctc gttgtgaaag aattctaaac acaaacgaag 360
ggtcgtcctt gtgtgtctag aacttgtaaa aggaatttac 400

<210> 2587
<211> 266
<212> DNA
<213> Glycine max

<400> 2587

gcttataatg tatcgctacg ctcgaaatta aacatccgaa actctttata tattcaaagt 60
gtcataacgc tcctcacgga tgtccgatgc cggcgcataa tatgtcgaga ggctcaaata 120
ttaacaacgg aagctcttga gaatttaaaa tggccctaac cttgtaaccc cgatgtccaa 180
ctcacgctaa tagtatatcg agccacttaa cattaaacat gtgcaacttt cacgaacatt 240
aatgggttat aacttttcac accgat 266

<210> 2588
<211> 455
<212> DNA
<213> Glycine max

<400> 2588

tcaacatcag accacttcac aggtgctgga actattttat atggatctga tggggcctat 60
gcacgttgaa agccttgag gaaagaggta tgcctatgtt gttgcggatg atttctccac 120
atttacctga gtcaacttta tcacagagaa atcagagacc tttgaagtat tccaagagtt 180
gagtctaaga ctacaaagag aaaacgactg tgtcatcaag agaatcatga gtgaccatgg 240
cagagagtct gaaaacagca cgttcactga attctgcaca tctgaaggca tcaactcatga 300
gttctctgca gccattacac cacaacagaa tggcatagtt gaaaggaaaa acacgacttt 360
gcaagacgct gctatggtea tgcttcatgc caaagaactt ctctattatc tcttggctga 420
agccatgaac acagcatgct acatccacaa cagag 455

<210> 2589
 <211> 438
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 2589

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 gtaatataac gaaacgctcg aaattgaatg tttaagcttt gagcccatc taacgataat 120
 aactntttac tcggatgtcc gattgagtct cgtaatatat cgacacgctc gaaatngaatt 180
 gttgaagctc ttagcctatt taaacgacaa taacgtttta ctccgatgtc cgattgagtg 240
 acgtaatata tcgagacgct cgacaatgaa tggtgaacct ctgagccaac tcaaacgaca 300
 ataactntnt actccgatgt cctgatgagt cccgtaatat atcgagacgc tcgaaattga 360
 atgttgaacc tctgagccaa ttcaaacgac aataactttt tactccgatg tctgattgag 420
 tcccgttaata tatcgaga 438

<210> 2590
 <211> 378
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 2590

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 taaaaagtta ttgccgcttg aattggtcga aaggttcaaa attcaatttc gagcgtctcg 120
 atatatttcg ggactcaatc agacatccga gtaaagagtt attgtccttt gagttggctc 180
 agaggttgaa cattcaattt cgagcgtccc gatataattac gtcactgaat cggacatccg 240
 agtaaaaagt tattgttcgt tgaatttgct ctgagcttca acattcaatt tcgagcgtct 300
 cgatatatta cgggactcaa tcagatatcc gagaaaaaag ttattgtcgt ttgaattaga 360
 tcatatgttc aacattca 378

<210> 2591
 <211> 387
 <212> DNA
 <213> Glycine max

 <400> 2591

tcgacctcta tttttcttat ccaagtcctt attactacta atagacaaac cttcaggtgg 60
 ttgcacgtat attatctcac tcaaatacacc attcagaaaa gctatcttca cattcatttg 120
 gtgcaactgc aaatcaatat gagctactag ggccataatg attctaaagg aatcattcgt 180
 tgatacaaga gacaaagtct ctttaaagtc aacactctcc ttctgcataa aaccctttta 240
 caccagtcta gccttgaata tctcaatggt accatataag cacttctctt cttgaagacc 300
 catctccaat tgattgcctt caaattctag gtaattcaac tagcttccat atgccattaa 360
 ctgacatata ttgcatctct tcattca 387

<210> 2592
 <211> 473
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2592

tcgatgatgaa tcaagaatga tttaatgata acaaagatgt atgactttta gctcanaagt 60
 caagaacact tcgatgataac aaagataatg atctcaagaa tcaaagaatg agttcaagat 120
 tgaatcaaga acacttcaag gttcaaaagg aaatttgatt tctagaatca agaatcaagt 180
 ttcaagattc aagttccaag aatcaaaaatc aagattcaag aatcaagaga aggctcaatc 240
 aagataagta ttaaaaagtt cttttaaaaa ctgagtagca catgaatttt tctcataacc 300
 ttttatcaaa gagttcttac tctctggtaa tcgattacca gattattgta atcaattacc 360
 agtagcaaaa tggttctcaa aaagctttca actgaattta caacgttcca attgatctca 420
 aaatgctgta atcgattaca atgatttggt aatcgattac cagtgtgttt gaa 473

<210> 2593
 <211> 469
 <212> DNA
 <213> Glycine max
 <400> 2593

gtcacctgcg gcatgcaagc ttcataaatt caatatataa catattatct gaatcgatat 60
 gatggtgaca gggcgagtaa cccatataaa caaatattgt gggtcaaaat tctagcttgt 120
 gagattgata tgggtctaaga aaaggataac aagcacaaga aaatactttt atgaatgtgt 180

aatcaggcgt tatctaaagc aaaaaatgat atggagtatc aaatttgatt gtcagactca 240
 gtagatatct aaacctaaat atgacataag aaacagtcag cacagagata aattccaaca 300
 aaagtaacat acgagcatgg atcaatatga ttatgatttg tgaacaaata gggaaagttt 360
 tgaattctaa tatacattgc gacaaaaatg attctagtgg ccacaaaata catgataatc 420
 aacttttatt ggatcaagac agaataaac attcaaaacc acatatacct 469

<210> 2594
 <211> 453
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2594

cgctagaatg ctntccaaaa tctaagatac ctatctaaca ctatataggt aggtatgccca 60
 tgaagcttaa gtatctcctt attgtaaagc tctgctaatt tgtccaattt gtatgtctcc 120
 ttaattggta agaagtgagc agacttggtt agcctgtcca caaccacca tatgacctct 180
 agacccaaac gagtttttgg aaaacttggt acaaaatccc tagaaattca ttcccatttg 240
 cactcaagaa ctcttagagg ttttaaagtt cttggttttg aagttgttcc ttcttaatca 300
 actctntaat gtcactaccg atctccaatc tattcaactt catgatcaat gcattcaaat 360
 tcaagtcctt aaactcctct atcaagttca tcttttacac catcaagcta gacatgtgca 420
 aagacttctt actgagagga tcagccacta cat 453

<210> 2595
 <211> 385
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2595

tgcataaccc ncacacctac tctattacaa atcaccacaa cccccaacgc cagcgccacc 60
 ttcaaccgaa tcctcatcct cctttcttcc acatcaatta tataagactt cccatccttc 120
 tcacccctcc ttcccttcac tgccgtcaac atatgattct cctgcaaata aagcacatag 180
 ctaaccatcc cactcaacaa tatgtctata aatccaaacc ccaccaacac aaacaatata 240
 gagaaaagct tagtggctgt actattggga gtgatatac cgtaccctat tgtgcacatt 300

gtcactatac aaaaatacaa tgcattcaact ataggatgag tctcagtagc tgtaaaatta 360
tgacgattga accaataaat gacaa 385

<210> 2596
<211> 482
<212> DNA
<213> Glycine max

<400> 2596

cgagacttca agatatgaac tccttggtcc tttgagcatt tcatgcaagc ttcacttaag 60
gtaaggggga gttttccact tcttgaacct taaccttttt gtctagcaaa atttatgtat 120
aaaacaagtt taaggtcttt tgtaggatta aagttacttt ggatatgttg gatcaagtgg 180
cctctgaata attaagaagg ggggttgaat taattattac tgaaccttta ctaattaaaa 240
atgtaccctt cttaggcttt tactataatg ttaagaaagt aaataacaga aatggaaact 300
taaccaaag taaaagcaat aattaaagt cacaacggaa aataaagagt gtatggaaga 360
agaagacaaa cacaagagtt ttatactggg tcggcaacaa cccgtgccta cattcagtc 420
ccaagcgact tgcggtcctt gagatttctt ttaacctgtt aaaatccttt acaagcaaga 480
tc 482

<210> 2597
<211> 481
<212> DNA
<213> Glycine max

<400> 2597

cgcttctcct gaatatcaaa tgcattctga gaataagaaa tggacaaata aggattggtt 60
agaagagcac taactaaaat taaattgaat ttgaatttac gaatgtaggc aacattatgc 120
aagagtgagg tattgggttaa gcaaactgaa ccaatggcaa tgataggtat aacatcattg 180
ttaggaagag tgacgggtttt atcataaaca agttggtaag atcgaaaatg atgaacggaa 240
caagaaatat gaatgttggc accagaatct aaaagccaac aatcatgaag aaaattagaa 300
gtggatgtaa aaaggatcat accactggca gaagacacac cttgagggat gacaacattg 360
gaagcatgac tctctaaaag attcatcaat cggctatatc gttgggcagt aagtcgaaac 420
tggaacccg agtcaccaga ggaagatggg gagtaagaca tatcaacaga tacttgagca 480

<210> 2598
 <211> 438
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 2598

gctgcagcta tgacaaaaat aatgccccca gatcttttta cataccagat ccattgcaag 60
 catggcagaa cccatatatt gncgttgcaa aaggtacaca acaaggattc atcttcttat 120
 atgagactct gaaaggcttc gatggcatca ttgaacacct gtgtaataca caaaagtaca 180
 acaaagcagt aaacaaatca aggcaataag aaaacaaaat ataatacgat tcttgctcct 240
 ttctgattgc attttacagc aagtttgata cacacaacca acaggggaga caacttctta 300
 aagaggtcat gacgcttctg catataaaac caaactactg aatgtcggca aaggcatctt 360
 tctaagtatt gaatctcacc taaaagagag tcaaataagt accttatgcc acattgtgac 420
 caacagacgc aactttct 438

<210> 2599
 <211> 344
 <212> DNA
 <213> Glycine max

 <400> 2599

agtctcacga ttgtcacgtg ctcatgcaac aattgttagc cgtggctata cgagacatct 60
 tgccaaacaa agtcagggtta acgataactc gcctgtgctt tttcttccat gctatatgta 120
 gcaaagtcac tgatccagtc atgtttgatg agttggaaaa tgaggccgca attaaactgt 180
 gccagttgga gatgtatddd cccctctgctt tctttgacat catgattcac ttgattgtgc 240
 atctggtcag agaaatcaaa tgttgtgggc ctgtttatct acggtggatg taccgggttg 300
 agcgatacat gaagatctta aaagggtata caaagaatct atat 344

<210> 2600
 <211> 406
 <212> DNA
 <213> Glycine max

 <400> 2600

tgctaaccce tggaagctcc taatatctcc cacactatctt gtggtgggccc attcttggat 60
ggcctagata ttcttagggc ccacttggac cccatttcta ccaactacaa accctaataa 120
aactatatta tctacacaaa aggtacactt ctctatattt gcatatacgg tgtgtctcct 180
aaggactgaa agaactttcc tgagatgtcc taagtgatca tactacgctc caactgtaca 240
ctaaaatata atcacataa aaaactgcat atctacctat taaatacctt aagacattat 300
ccataagcct cataaaggag ctcggtgcat tactgatccc aaaaggcatc actaaccatt 360
catacaaacc aaacttgggc ttgaaagcga atttccactc atcacc 406

<210> 2601
<211> 431
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 2601

gctgggtctg atatctttat atctttatag ttcaagcatc ggtttgttac ctccatacaag 60
cctatcttta ggcttgtgcc cgacctttat aaaagtctgt caggttcgctc agttcattta 120
aagacatatt tcatattaga acgtgtaaaa aacaataatt ttttaacaaa aaccaagaa 180
tttcattaaa aaataataag ataatgggta accacaagat atgggcaaaa ttttcctaca 240
aacattacat gtgacatact accaaagtct tttaagtttc accaaaagga aagagtctat 300
attcttacta cccatttata ctacattaac taaaataatt taaatcatca aactactaaa 360
ataatgttgt aatttaaata anataattat aatattatat gccatattaa tataatantt 420
ttatataaca t 431

<210> 2602
<211> 361
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 2602

agcttgagga taaagacttc ccaagctatn tatcttctct ctgagagagg ctttttctca 60
ctctaagaag tggattcact cttatcttgg atggataaga atgaaggctc ctacccttat 120
ttatactact ccatctccac aataaatggg ggagatttct tgtatcataa ggtgaagatt 180

aattctctag aatgctccac acattctagg agtttctaca ctcttccata tccttccata 240
 aggttccaga aagtttcaca catctctaga atattccaga gggttccaca ttcttccaca 300
 agcttctaga gagttctaca ctactctaga gctctccaga gcgttctaga anattctaca 360
 c 361

<210> 2603
 <211> 312
 <212> DNA
 <213> Glycine max

<400> 2603

gcttctcgat atgttatgcy tctgaatcgg acatgcyagt gaaaaattat gaccatttta 60
 atttcccagag agcttccggtt ggtcaatttc tagcatctcg atacgctatg tgcctgaatc 120
 ggacatgcga gtgataacgt atgaccattt gaatttctcg agagcttccg acgttaattt 180
 ctacggtctc gatactctat gcgcctacat cggacatgcy agtgaaaagc tattaccggt 240
 ttagtttctc gagagatgcc gatagtcaat ttcgagcgtc tagacatggt atgcgcctga 300
 atcggacatg cg 312

<210> 2604
 <211> 257
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2604

cccatgaatn ggcgtttcgt tcatgtgtcc tgcaccttca agtttggagc tatgcgtagt 60
 gattgcttag tgaaattctc cattcttaat cttttcggag ccccatgaat tgcgttntcg 120
 ttcattgtgtg ctccaccttc gagtttggag ctatgcgtag tgattgctta gtgaaattct 180
 ccattctcaa tcttttcgga gccccgtgaa ttgcgttttc gttcatgtgt gctccacctt 240
 ccagtttcga gctatgc 257

<210> 2605
 <211> 370
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 2605

agctntggag tttccaagtg ccaattcgtc ttcttcttta gaccagtctt cttctggctt 60
caattcatca atgggctttc cttctgtgtc cagcatcttg ggatgttccc agcctttgat 120
gacagctttc caggttctgc tatccagtgga tttgaggaag gccaccattc ttgctttcca 180
gtattcatag ttgcttccat caagaattgg tggctgtgtc actgggtccgc cttctttctc 240
catgttcacg agaatttatc tccctagatc tcaactcagt atttcgagtg cccgctctga 300
taccaattga aattctgata ctggggacag atgtcgtaca ggatgtcacg acatcacgct 360
tcagaacatg 370

<210> 2606
<211> 419
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2606

gcttacacag tttgtctttc ttaaactnga gtnttgaag acaattacta agtctttcct 60
aactagatta tttaaatgat gcatattaat gtgtgcagtc ctacaatgct acaaccatga 120
atcatctatt gtactcacca agcaacttag ctcatgaaaa gatgcttgct caacattcag 180
catataaatg ctacttattc tcttaccaat atggagagct ttactggata tggcttcact 240
tataagacaa caatttctat tgaattcaat cttgaaacct ttatcacaaa gttggctaata 300
gcttagaaga ttatgcttta gtttatccac atataacaca ttctttatct gagtttcgtc 360
ttgattccct atacttcctt ctcccattat ctttcctttt gtattggnct caaacatga 419

<210> 2607
<211> 419
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2607

ntgcacgtat cagtcaagtg tatggaccat atcgtagcca atgtgctcat agataatggt 60
tccagtttaa acgtgatgcc taagagcact ttggagaaat taccattcaa tgcttcccac 120
ctaaagccga gttcaatggt ggttcgtgcc ttcgacggca cccgccgaga ggttagggga 180

gagatagacc tcccagtaca gataggccct cacacctgtc aagctacctt ccaaataatg 240
 gatattaacc cccctacaa ctgtctgttg ggacgtccgt ggatccactc agtgggagtt 300
 gttccctcta cactccacca aaagttgaaa ttcgtagtgg aagggcatct ggtcatcgta 360
 tcaagcgagg aagacatctt ggtgagctgc ccatcctcta tgcctatgt gggagtcac 419

<210> 2608
 <211> 319
 <212> DNA
 <213> Glycine max

<400> 2608

agcttgaggg aaaacttgat gccttgggtca acctagtaac tcagcttgcc atgaatcaga 60
 aatctgcacc tgttgctaga gtctatggtc tatgttcttc tgcatacac catatagatc 120
 tttgtccttc tttgcagcaa tttggagtca atgagcaacc tgaagcttat gctgcaaaca 180
 tttataatag accccctcag cagcaaaacc aacaacagta gaataattat gatctttcaa 240
 gcaacagata caatccaggt tggagaaatc atctaaatct gagatgggca agtccccac 300
 aacaacaaca gcctgtccc 319

<210> 2609
 <211> 393
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2609

catgctacta tgaataactc caccacatta agcaacacct gccacttgag cagaattggc 60
 cctagtgtaa aacagctaatt atttgaactt tgggtctacc aatatttatt attaattntt 120
 taaagtaaaa aatatcacac atgttaatta aaagacctta catattatta ttttctttaa 180
 agtaaaaaaa tatatttttaa ttnttattct aggtctcatt ttctattgga ccgacacttc 240
 agttgagatt aaaaatctca ctaagagaat agctccaagt atttgattg tagcatcact 300
 aacaacatcg tgtccattgg ttgcagcaca caggtattca caactattct tcatgtncgg 360
 aattagtgat tngatcaaaa tactaatcaa cat 393

<210> 2610

<211> 392
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2610

tctaagaagc ttcttttgaga agctagatcc ttatctatcc acaaccctct attaactata 60
 ttaacctcct taaaattaat tacggataaa aataacacaa caaataatca aacatcaaac 120
 ataattacta ataatatata tatatatata tatatatatg tatcaggggtg ttacataatg 180
 gcattggata gaagactcca agaagattgg gtcagcgatg caagagaagg ccctaggggtt 240
 ctcatgagcc ttatggtaga tttcggggccc atgggcttag tacgagcccg cttatctttg 300
 tacatattag attaaggttt cattatTTTT gggccttgta tttagggctc cataatatan 360
 gtaagggtacc ctagaaatgt aggatttttc ag 392

<210> 2611
 <211> 352
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2611

tgtaagccta agatcttcat catcaatgga tgtccttgct ttatggaaga tgaatggcaa 60
 cggaatggag aatgaagaga gagaggagac accacttcaa cgagaagata agtctagaag 120
 aagctcacca ccataggagg ccatggataa gagcttgagg gaagaatgag atgaatgaag 180
 ggagaggaag agaggagcac gaaattttgt gctctaaaag agctctgaaa tctgaagttt 240
 aatattcaaa tgatcaaagt tgaaaaaagt gcacacacat gacctctatt ttatagccta 300
 agtgtcacac anaattggag ggaacattga atttcaattc aaatttcact tg 352

<210> 2612
 <211> 314
 <212> DNA
 <213> Glycine max

<400> 2612

agctttatgc ttaactatgt atgggcaaaa tttattactg ttgctcaaga catacaagtg 60
 aacttgaac aaatcttcta cacttggagt gatcacatgt agtcctcttg aacccttacc 120

1122

aaccactctg tcatcatgcc gagactcagg aaggccaaca tgtttagcct tctctaaaaa 180
 ttctgaacaa aattcaatgg cttcttctgc aatgtacctc tcaacaataa aagcttctgg 240
 atgatataga ttctttgtat accctcttaa aatcattatg tatcgctcaa ccgggtacat 300
 tcaccggtga taaa 314

<210> 2613
 <211> 366
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2613

agctntgagc atttcctttt acttttatnt cactccatca tcatcactca cacatcanac 60
 actcactagc tcttctaagn gttctctggc tctctctttc ttttggggga tggagttcaa 120
 caagttcaga atcagaagct atgaggggca atctgatagg gctcaagtgg aagatcttga 180
 gagaagatgc gaggtanggc catcagaaag cgtgtttctc ttcacagaca ctatgggtga 240
 ccccatthgt aggatccgga acagtcccat gtacatgatg ctggtaagtg atacacacac 300
 acaacaatta ctatgccact ataagtcact aacttcatgg gttttttccc ttctcattat 360
 gtatat 366

<210> 2614
 <211> 349
 <212> DNA
 <213> Glycine max
 <400> 2614

agcttgtagg tcttggatct tcttcatcaa tggagtcttt tgcttcttga agatcaatga 60
 caacataatg gagaaggaag aaagatgatt ggagaagcca cttcaaggag aagatgagtc 120
 aagaagaagc tcaccacat atgaaaccat ggataagagc ttgaaggtag aagaagatga 180
 gtggagggag agaaagagca cgaatttttg tacttaaatg aggtatgaaa tttgaagtgt 240
 aatttctaaa tgatcaaagt tgaaaaaat gcacacacat gacctctatt tatagcctaa 300
 gtgtcacaca aaattggagg gaaatttgaa tttctattcg tatttcact 349

<210> 2615
 <211> 379

<212> DNA
<213> Glycine max

<400> 2615

ttaaaagttt cgaaagacca agttctatcc atcacactat tcaaccccc ttctagtgtg 60
tttcaatcac ttcatatacc tactcaccac gatgatttct tgtgttaggt cttgtcttgt 120
gcacacaatt gcatacatga gactacctac aacagtctca taaggaacac gaggcattgta 180
ttctctttat gattctaatt gagtggcatt gagtccagtg agatgaatgg atgtagtcaa 240
aggagtacaa actagttttg tggatgccat cccaaaatga ttcaaacatt tctgaatgta 300
ttccttttga catcaaattt tttttcagga cttgaccctt cttgatctcc atgccccaaa 360
tcttttatgc atctctcat 379

<210> 2616
<211> 371
<212> DNA
<213> Glycine max

<400> 2616

ctcggagatc tgattcaggc gcataatata tcgagattct cgagaatgta caacgaaagc 60
tctcgagaaa ttccaatgct cattatcttt aactcggagg tctgatttaa gcgcataata 120
tatcaagacg ctcgaaattg aacaacggaa gctctctaga aattgaaatg gtcataactt 180
ttcactccga gggtcgattc aagtgcata tatatccaga cgctcgaaat tgaacaatag 240
aagctctcga gaaattcaaa tggtcataac ctttaactcg gaggtccgat ttaggcgcatt 300
aatatatcga gacgctcgaa atataacaat ggaagctcta tgggcaattc aatggacata 360
acttttatct c 371

<210> 2617
<211> 353
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2617

agaaattggg tgcaaatnt aattcctttg gctcgaaaaa gttgactctg gtacccgggg 60
acatctctcg tgaagacttg ggattggagg attccattct aagggaagag atttatgatc 120

aaacagatgt cattattaac ttagctgcaa caactaactn tgatgaaagg catattgtat 180
 atactaaaac atcataggct tttatgccta tttaatgggt ttgggtgccct ggccttagtt 240
 attattctct tgtttcttct ttttaattact atctcacctt aaatttcagg tatgatatat 300
 cgttgggtct aaataccttt ggtggtaagt atgtcatcaa cttcgccaaa aat 353

<210> 2618
 <211> 288
 <212> DNA
 <213> Glycine max

<400> 2618

cccaattccc aaacgccaag ccagggcgcc ttctttcttc aaaggcccct tgtccttttg 60
 cgacctcaat ttacccgccg cttgggttcg gggacatgag cgccgtctac ttggcggtgc 120
 ccaaagaaag cgctggagcc cgcggcgcgg tgttcgcggc gaacgtgatg gagaaaggag 180
 gactggcgag gaggaacaag gaaggcagag cgaggacaga gagggaaatt ctggaaatgt 240
 tggatcatcc tttcttgccc acgctctacg ccttcataca cgcgcccta 288

<210> 2619
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2619

ttgagcanat tcacacgaca atataatddd actcggatgt cttattgagt cccgtaatat 60
 atcgagacgc tcgaaatgga ttactgaaga tctgagcaaa ttcaaacgac aataaatttt 120
 ttactcggat gtctgattga gtcccgtcat atatcgaaaa gctcgaaatt gaatgttgaa 180
 gctctgagca aattcaaacg acaataactt tttactcgga tgtctgattg agtcccgtaa 240
 tatatcgaaa accttgaaat tgaatgtaga agctctgagc acattcaaac gacaataact 300
 ttntactcgg atgtctgatt gagtccgcga atatattgag atgctcgaaa tggaataccg 360
 aagccctgag cacattcaaa cgacaataac tttttactcg gat 403

<210> 2620
 <211> 234
 <212> DNA
 <213> Glycine max

<400> 2620

ctttggtatt ccatttcgag cttctcgata tattacgaga ctcaatcgga catccgagta 60
aaaatttatt ggtcggttga attgcttaga gcttcaacat tcaattacga gcgttcggat 120
atattacggt actcaatcag acatccgagt aaaaagttat tgtegtttga attggctcag 180
agcttcggta gtccatttcg agcttctcga tatattacgg gactcaatca gaca 234

<210> 2621

<211> 455

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2621

ntacaacaca tgccactcta ctccaatntc ttgaaggata ttatcaagga aacataagta 60
tattcaccag gaaaacatcg tagtggaagg aaattgtagt gttgtgattc aaaagatcct 120
ctcccaccca agcataaaga ccctggggagt gtaactatct cttcttcaat tggagaagtc 180
attgtgggaa aggctcttat tgacctcgga gccaacatta gtttaatgcc actctgcatg 240
tgcagaaggt tgggagagtt ggagatcatg cccactaaga tgactntaaa cctgggtgac 300
cgctccatta ccagaccata tggagtaatt gaagatgtgt tggtcagagt gaaacattnt 360
atcttccaga cagactntaa ggtaatggat atctgtgaag atactgacat tcctataata 420
tggggaaggc cattcatggt aactacaaga tgcatt 455

<210> 2622

<211> 328

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2622

tctaaactnt atacaagaat gaagctctga taccacctgg tggacaagtg gcctcaaata 60
tcttaagaag ggggggttga attaagatat taaaattat ttnccccaat taaaattct 120
actttgattc caatacaagt tccaagttcc cttaaagatg gatttctaaa caatgattca 180
aattaaacaa tctgaatata aatggtaagc aataattaat aaaagagttt aagggaagag 240
aaagtgcaaa ctgagattta tactgggttcg gccacacct tgtgcctacg tccagtccac 300

aagcaacctg cttgagagtt ccactatc

328

<210> 2623
<211> 474
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2623

tatagatgca cccttaggat accacaatcc tactntaatg taccctntat gtacttaaga 60
attctcttaa caactaccaa atgagtttct ttaggattag tttgaaatct agtacatata 120
caaacgctat gcctaataatc gagatgacta gcagttagat atagaagagg gtcaatcata 180
tctctatata ttgattcatc tacatatatta catttctcaa ccgggtcaag atagcatgag 240
gtagccatat gtgttgttga ctcttgagat ttctttacac caaacctttt aagtaaataca 300
atgcaatact tggattgggt gatgaagatt ccactctcta actatnttat ttggagtcct 360
aaaaattagg ataactcccn catcatgaac atntcanact ttccttgcac ggtctcagca 420
nattctttgt acaagatatt ggtagtagct ncagatataa tgtcatctac atat 474

<210> 2624
<211> 293
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2624

cattgttact tccatgaata ttgatattgt atcatgctta antatatgca tttgcttatt 60
ctgatcattg cgtgttgtgt gattatttct tccatgcagg aacatgattc ctatttgctg 120
tgagagtga atgatgggca gcagcaccaa ctgaggtgag cttatatctc ctttgttatg 180
tcattatcca ttgttagggc ttagctctac cgagttttta aagattggct aagattntgt 240
taaaacatca ccacttatac aatgaaggaa agctggagtt gctgcacatg atg 293

<210> 2625
<211> 180
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 2625

gtctanggtc atgcctcaag ggctatccac acccttacct atccccctctt caccttgggt 60
agacattagt atggactttg tccttgggct tcctagaacc caaagaggtg tagactctat 120
ctttgtggtg gtggataggt ttagcaagat gacactcttt gatgcaagct ccattggagc 180

<210> 2626

<211> 221

<212> DNA

<213> Glycine max

<400> 2626

gaaaataaca atttagtgcc caacttgctc cacaaagtcc tcccaaatg gcttaagaac 60
ttagaagccc tatcactaac aatgctcctt ggcaaaccat ggagtctcac aatctccttg 120
aaaaacaaat cagccacatg ggaagcatca tcaacttttt tacatggaat aaaatgagcc 180
attttagaaa acctatcaac aaccacaaaa atggaatctc t 221

<210> 2627

<211> 374

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2627

tgccgccacg gagtnttccg actatgctct tgttgtgtgg aacaagctac aaaaggagag 60
agcaagatat gaagagccaa tgggtgatac atggacggag atgaaaaaga tcatgaggaa 120
gcggtatggt gcggctagtt actcaaggga cttgaaattc aagctccaaa aactaaccca 180
aggcaacaag ggggttgagg agtatttcaa ggaaatggat gtgctcatga ttcaagcaaa 240
tattgaagaa gatgaggagg taactatggc tcgatttctt aatggtttga ctaatgatat 300
ccgtgaatat tgtgagctgc angagtttgt tgaaatggat gaattgcttc acaaagcaat 360
ccaagtggag caaa 374

<210> 2628

<211> 303

<212> DNA

<213> Glycine max

<400> 2628

acaaagaatg aagaacgcat tcgacaagat tgtgtgtttg cgcaacttcc atgaaagga 60
 ccttgtgcta aaaaaggtgt cccacgctgt taaagataat cacaggaagt gggcccaaa 120
 ctacgatgga cctttcgtca tgaaaaaggc tttttccgga ggggccctgc tgcttaccaa 180
 catggatggc gaggagctac ctttaccat aaattctgat gttgtcaagc gatactacgc 240
 ttagaatctg gggcaattca aggatatcgc tgcattgttt tttattttta tgtgttcttc 300
 ttg 303

<210> 2629
 <211> 372
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2629

agcttatacg gtctaggatg tggntntgtg actaaattca atntagacac aagtcttgca 60
 cttgccacat tgggtacaact ccctccatca atgatcatca tgcaaacttt gccattgatc 120
 aaacatctag tgtggaaaat gttttctcca tgaatttctt ccattgactt caattgatgg 180
 ccaagtaacc gcctaatacat caacaattct ccctccggtg ttttctccac ttctctctca 240
 tcatectcac tctcttctcc cttttcaact tcggactcac taatgtactc tccgtctata 300
 agaatcatga ctttcttggt agggcactca tatgcataat tgtccaagcc ttggcactga 360
 aagcattca ca 372

<210> 2630
 <211> 479
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2630

ntnntatatt agtagatgaa gatgaatntg tggccacctc atggactcct ctaaggataa 60
 taccataatt tcttgactg aattgttggg agttggaagc catcttctca atcaaattcc 120
 tagcctcagc aggggtcata tcaccaagag ctccaccact ggcagcatta atcatactcc 180
 tctccatggt actaagttgc ctgatgccta gtactcatgc aagctctctc cactaagttg 240
 cctgatgcct gaaatgtctt ttctgatggc agtggtccta gatgcaggga agaatttctc 300

cgagaacacc ctcttaaggt catcctagct gaaaatggac ctgngagcaa ggtagtacia 360
ccaatctttt gccactccct ctagagaatg aggaaaagcc tttagaaata tatgatcttn 420
ctagacatca nggggcttca tgggtgaaca aacaatatgg aactccttaa gaaatctat 479

<210> 2631
<211> 247
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 2631

tgtgatgcgg ctgggagggg aatatgagca gtcttaatgc aaaataagca acccattgct 60
tatttttagca aagccttatc tgacaataat ttagcaaaat ctgtctatga gaaggaactt 120
atggcattgg tccttttcat tcaacattgg aggactact cgtaggaaa ggaatttgtg 180
gtgtatacag atcacanaag cttaaaacac tttctgcagc agaggatctc ctctccggat 240
caacaat 247

<210> 2632
<211> 379
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 2632

agcttaatgg atctgtagan aatgatactg cgccaaaacc gtttcatggc aaagatttcc 60
atgatcgtgt caaggatatc ataactatct ttgggaagac ataaaaaaaa gcaccagtga 120
gacacacatt tggaagaaaa ggtccatttt cnttgagctt cttactggt ctgatcttga 180
cattagacat tgtatagacg tgatgcatgt ggagaaaaat gtttcatgat gtttaattgg 240
cacccttctt aacattaaag gcaagacaaa ggatggtttg aagtgtcgtc aagacttagt 300
tgacatggat atacgagagc agttgcatcc aataccaaaa ggttcgcgaa cataccctac 360
cccagcatgt cacacaatg 379

<210> 2633
<211> 420
<212> DNA
<213> Glycine max

<400> 2633

agcttgaggg taaactagat gccttggtta acctggtaac ccagctggcc ttgaatcaga 60
aatttgtacc cgtcgcaaga atctatggtt tatgctcctc taccgaccac catacagacc 120
tttgcccttc tgtgctgcaa tctggagcaa ttgaatagcc tgaagcttat gctgcaaaca 180
tctacaatag acctcctcaa cctcaacagc aaaatcaacc acaacagaac aattatgacc 240
tctccaacaa taggtacaat cccgggtgga ggaatcatcc caaccttaga tgggtcaagtc 300
cttcacaata gcagtaacaa caacaacctt attttcaaaa tgctgctggc ccaagcagac 360
cataccttcc tccaccaatc cagcaacaac aacaatagca gcaacaaccc tagaaacagc 420

<210> 2634

<211> 279

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2634

accatantcc cacagtgagc cagcatgtca ttctattcac atcaaaaccc atgttcaatc 60
ccttatcagc aacattcaaa atattctctt ccacataatg gttccacacc caattcacca 120
aaggcacatg attatgctcc ccacctcgtt aagtcttctt tccacatgct atcttcaaca 180
caacaacccc aaaaccgtac atgtcagatt ccttgctaac cctttctttc ttacatatt 240
ccggggccag gtacccatat ggctccctcca gctttgtct 279

<210> 2635

<211> 297

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2635

aatgcttctt ttttcacttg tgaagatggt caaaagttgg ctatgaagat ggttcaaact 60
gagaaacatt tgggtatttc attggtttat aaacttattg agctagcttt gatattgccg 120
gtgtcgacag catcccgatg aagagctttt tcagcaatga agattatcaa gtctaaattg 180
cgcaataaga tcaacgatgt gtgggttcaat gacttgatgg tatgttacac cgagcgggag 240
atattcaagt cacttgatga tattgatatt attcgaacat ttaccgcana gaagtct 297

<210> 2636
 <211> 425
 <212> DNA
 <213> Glycine max

<400> 2636

agcttctggt gggacatctt gacttgcttt ccaatctgac attcaccaca gattctgcct 60
 tcttctatctt tcagattggg aatgcctcta acaacacctt tgtcaatgat tttcttcatg 120
 cctcttaagt gcagatgtcc aaatctttga tgccatattc tgacttcac tttcttggag 180
 gatagacatg tggaggagta actgggttct tgagggtgcc atatggtagc agtgccttt 240
 gatctgctgc ccttcattag aacttcactc ttctcatttg tcaccaagca ttctgacttt 300
 gtgaagttta cattgaatcc ttcacacac agctgactga tgctgatcaa gtttgcagtc 360
 agtcccttca ccagcagtag tttgtccaga ctaggaagtc catcatgagc tagctttccc 420
 attcc 425

<210> 2637
 <211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2637

actatctgat attagctcct atagaagata gatacgaaga ctcttttatt ttaccactac 60
 aaggctagat ataacttttg cactgaatca acttagtcaa ttcctatctg ctccagaatgt 120
 catcaagcag ctgctcacag agtacttcgc tatatcaaag gctcacttgc atgtggcctt 180
 ttctaccag catcaaagc tcacaagctc acagcctaca atgactctaa cttggccagt 240
 tgcattgatt ttagaaaatc cattactgga tattgnttat acattgggtct tttatcttac 300
 cactacaagg ctagatataa cttgtgcact gaatcaactt agtcaattcc tatctgctca 360
 gatngtcac aagcagtttc tcacagagta cttcgctata tc 402

<210> 2638
 <211> 359
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 2638

tcatgatggt gccaaaagag tcatcaagaa tgtaaagctt gtactagaat tgaagagaaa 60
tttgatttct cttagtgagt ttaacaaaca tggctatgtg ttcaaagggg agaatgaagt 120
tatgaaagtt ctaaaaggct catgatattc atgaaagggg tgcaaaaagaa tggcatgtat 180
tcacttattg gagaagtggg aatgggatca gctgctacaa cttctatcaa aaggttttca 240
aagactgaac tatggcacag aagattgaga catgtaagta ggaggggctg attaaactgg 300
gaaaacataa cctgctntgt ggagataaag tggagaaaact tgacttttgt gaacattgt 359

<210> 2639
<211> 326
<212> DNA
<213> Glycine max

<400> 2639

agcttggatt tccttttagt agggaatcta ttctacctaa gatggagcat aaccagtc 60
ccctcattaa gaattagctc tttccttcct ctatagcctt tatttgaata cacctttggt 120
tggttcttaa ccctctcatg caacttcttt acaaactctg acctagattc cccttcttta 180
tgtataaaag aagtgtctag tggaagggga atgaggctta atggtgttag gggattgaac 240
ccatagacaa cctcaaaagg ggattgcttg gtggttctat gaacccccat gttgtatgca 300
aattctacat aaggaagata ctcatt 326

<210> 2640
<211> 480
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2640

ctaagcttga gaaaattcaa cgacaataac tntntactcg gatgtcttat tgagtcctcg 60
aatatatcga gtcgctcgaa attgaatacc gaagcgtga gcaaattcaa acgacaataa 120
ctntttactc ggatgtctga ttgagtcctg taatatatcg aaaagctcga aattgaatgt 180
tgaagctctg agcaaattca aacgacaata actttttact cggatgtctg attgagtcct 240
gtaatatatc gagacgctcg aatgtgaatg tcgaagctct gagcaaattc aaacaacaat 300

aacttttttac tcggatgtct gattgagtcg cgtaatatat cgagatgctc gaaatggaat 360
 agcgaagctc tgagcaaatt caaacgacaa taacatttta ctcgatgctc tgattgagtc 420
 ccgtaatata tcganaagct cgaaaatgaa tgttgaagct ctgagcaaatt tcaaacgaca 480

<210> 2641
 <211> 412
 <212> DNA
 <213> Glycine max
 <400> 2641

agcttctaca ttcaatttcg agcttttcga tatattacgg gactcaatcg gacatcccg 60
 gtaaaagtta ttgtagtttg aatatgctca cggcttcggt attccatttc gagcgtctcg 120
 atatattacg ggactcaatc ggacatccga gtaaaaagtt attgttggtt gaatttgctc 180
 agagcttctg tattccattt cgagcatgct gatatattac gggactcaat cagacatccg 240
 agtaaaaagt tattgtcgtt gcaatttgct cagggcttct gtattccatt tcgagcgtct 300
 cgatgtatta cgggactcaa tcagacatcc gagtaaaaag ttattgtcgt gtgaatctgc 360
 tcagagcttc tacattcaat ttcgagcttt tcgatatatt acgggactca at 412

<210> 2642
 <211> 384
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2642

agctntggag tggaaatatt tgaaaatagt gtctagcgtg taaatagaat agaatagaat 60
 attttcatgt ctagtcttac ttttctttat tatatatttt ttgtgaaact aaaagatgct 120
 ctcttttatt ttatgccctg ttttgtttat acacaaaata taaaatatat tttttgcgtt 180
 atactctgtc ttattttaac acgttaatca aatgcaatct taaaaccact aaccaaagat 240
 tatctaaaag caaatgaaat gggagagaaa atggaataaa aaattgaagg aatctacata 300
 tatattgtta agtcatcgaa gtctcacatg atggaatctt gaagaanaga gcggctaata 360
 tctatctatc tctctctctc tctc 384

<210> 2643
 <211> 453

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2643

agcttagtac ttggaactca gacattcgat cgactagcct gtctatgcta ggaaaaaggt 60
 atgcacacct agggcacgcc ctgtaaagat cagtgtagtc gatgcacatt cgccattttt 120
 gttggccttt ttgatcatga tgaagtttagc gagccaagtga gaatacctaa cttctttgat 180
 gaagttggct tggaggagca tgtctacttc ttctctgact gttttgtgtc attcttctct 240
 catcttactc ttcttctatg atatcggttt ggcttgggaa caaatagtga gcttatggca 300
 gataatgctg gggtagattc ccgacatgtc aaatggctgt caagcgaata ggtccgtgtt 360
 cttgtgtang acatcaatga ttogtctatg cttatggctg gtgaagtccc tgttgagctg 420
 cgtacactac ccgggctggg gttcagagctg tag 453

<210> 2644
 <211> 435
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2644

ntgtgaagct cctgtnttag cntacccga ttntactcaa ccatttgaag ttgaatgtga 60
 tgctagtgga gttggcattg gggctgtttt gatacaaaac aaaaggccta tagcttattt 120
 ctgggagaaa ttgggaggag ccagattgaa ctattgcacc tatgacaaag agttctatgc 180
 cattgtgaga gctcttgatc attggaatca ttatttgcgt tctaactact ttatattgca 240
 ttcagatcat gagtcattga agtatatcaa tgggcagcag aagttgagtc caaggcatgc 300
 taaatgggtt gaatttcttc aatcttttaa tttctcttca aaatacaagg atggtaagag 360
 taatgtggtg gctgatgcac tttcaaggag gtatgctnta atttcaattc ttgaaactcg 420
 tttacttggt tttga 435

<210> 2645
 <211> 445
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations

<400> 2645

tgtcanaaac aaacatacta aaaggataaa acttaacaat taaagcatga tccattatca 60
tcacatatat gagataccat gtaaaaatca tagataaagc aagtcctaga attctcataa 120
tagaacagct aataataata atcaattcat taaccatttc ataaaagctc aatcatcaca 180
cactatcatc ttcatcagtc catcaatcat caaataacac aatatttcta tgactcaaca 240
agtaacatat cattttcaag tcgcaattat caatgtacat gtctatctat cacaattaac 300
ccaaacacat cccttaacat agcacaatta acccatcttc atcgggccat tctgttagt 360
caccaccgat aaccttttagc actaggttga gggcccacca agcacctca acttatgtgt 420
ctactcacat gcaatgtcat tcac 445

<210> 2646

<211> 350

<212> DNA

<213> Glycine max

<400> 2646

tcgattacca gaacgaaaga atgacaaaca gctgctgact agggtttaga attggaacgt 60
tgaacatgta atcgattacc atatgcatgt aattgattat cagcgactgc actttggaaa 120
ttcagattcc cagtcctaca tgaaattctg atatccagtg gacagatgac gtacacgatg 180
tgacgacatc acgcttcaga acatgcagtt tatatgtgtc cgtatgagac agattacaca 240
agtaaataac acatgagaat cgttaccag ctctggcagc ctcacctaca tctgggtggct 300
accaaccggg aggaaaccac tctaatagtg tagacaacgt caacagccct 350

<210> 2647

<211> 468

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2647

agcttgccctc anaataaagg atttcaaagt catgcaatgc tctagtaatc gattaccagg 60
aagtgtaatc gattaccaga aggaaagaat gaaaaagagc tggtgaaaag ggttttgaat 120
ttgaattttg aacatgtaat cgattaccat atgtttgtaa tcgattacca gcaacggaac 180
tttggaattt caaattcaaa agtcataact gaaattctga taccagggga cagatgtcgt 240

acaggatgtc acgacatcac gcttcagaac atgcagttta tatgtgtccg tatgaacaga 300
 ttaaacaagt aaataacaca agagaattgt taaccagtt cggtgcaacc tcacctacat 360
 ctgggggcta ccaagccagg gaggaatcc actctcaata gtgttagttc aaggctaac 420
 agcccctggt tacaaccttc tcacctaacc actaccgtg cgatctct 468

<210> 2648
 <211> 454
 <212> DNA
 <213> Glycine max

<400> 2648

agctgttaaa agatattaca ctccaataaa atttggacta agctttttta attatcgttt 60
 gaagctaaaa aaaaatatag tttgtactct tacgtctttt taattaaagc ttacgtataa 120
 gtgcaagcaa acactatatt agtaaaagct tataaaacttt caaatagtaa aagttcatat 180
 aattcacgtg tgcatatata tactgataaa aaaatattaa ctatacataa cagaacttaa 240
 taaattataa ctctatcttg aaaaactatt aaatattttt ttcaatgttt cctatacaaa 300
 attggcaatt tctatcttta gtttcttata caaaatccaa acgataatat actacctgct 360
 tctcatatat ttcaatgttt aatgttattg cacaaagatt aaacaacatt taataaaatt 420
 aaaattggta tacttagatt aaaataccct catt 454

<210> 2649
 <211> 458
 <212> DNA
 <213> Glycine max

<400> 2649

agcttcatgc ttatgtatgt atttcaaaac ttcattacta ttgttcaaga catacaagtg 60
 agctcgtaac aaatcttcta cacttggagt gatcacatgc agtcctctta aacccttacc 120
 acccactctg tcatcatgcc gagactcagg aaggccaaca ggtttagcct tctcattata 180
 ttctgaacaa aattcaatgg cttcttctgc aatgtacctc tcaacaatag atgctcctag 240
 acaataaaga ttctttgtat acccttttaa gatcttcatg tatcgctcaa ccgggtacat 300
 ccaccgtaga taaaccgaac cacaacattt gatttctctg actagatgca caatcaagtg 360
 aatcatgatg tctaagaaag caggggaaaa tacatctgca actggcacag tataattgctg 420

gccttattttt ccaactgatc aaacttgaca ggatcaat

458

<210> 2650
<211> 459
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2650

ctaagcttaa catcagacta cttcaggtgc tggaactact tcacatggac ttgatggggc 60
ctatgcaagt tgaaagcctt ggaggaaaga ggtatgccta tgttgttgat gatgatttct 120
ccagatttac ctgngtcaac tttatcagag agaaatcaga cacctttgaa gtattcaagg 180
agttgagtct aagacttcaa agagaaaaag actgtgtcat caagagaatc angagtgacc 240
ataggagaga gtttgaanaac agcaggttta ctgaattctg cacatctgaa ggcactcactc 300
atgagttctc tgcagccatt acaccacaac agaatggcat agttgagagg aaaaacagga 360
ccttgcaaga ggctgctagg gtcattgcttc atgccaaaga acttccttat aatctctggg 420
ctgaagccat gaacacagca tgctacatcc acaacagag 459

<210> 2651
<211> 431
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2651

aaactaagct tttattttat aaatgaaata atttgggcca tccatggact cctctaagat 60
aataccataa tttcttgac tgaattgttg ggagttggaa gccatcttct caatcaaatt 120
cctagcctca gcaggggtca taccaccaag agctccacca ctggcagcat taatcatact 180
cctctccatg ttactaagtt gctgatgcc tagtactcat gcaagctctc tccactaagt 240
tgctgatgc ctgaaatgtc tttctgatg gcagtgggcc tagatgcagg gaagaatttc 300
tccgagaaca cctctttaag gtcattctag ctgaaaatgg acctgngagc aaggtagtac 360
aaccaatctt ttgccactcc ctctagagaa tgaggaaaag cctttagaaa tatatgatct 420
tcctagacat c 431

<210> 2652
 <211> 414
 <212> DNA
 <213> Glycine max

<400> 2652

agcttgtgtc atacttcaact gtgacaatca aagtgtcatt cacttggcaa atcaccaaatt 60
 ttaccatgag aggacaaatc atgtagatgt gaaactacac ttcacagag atgtgattga 120
 atctgagaag gtgaagggtg agaagggttc aacagaagaa aacctggttg acatgttcac 180
 aaagtcacct tctagtgtca agttcaagca ctgcctggac ttgatcaatt ttgaagatgc 240
 ctaaggaagt ctaatagaag tgcagccctg aatacaaaga tatacacttg ctgggtttgga 300
 atcaagggtg agatttatgg tgtgtgactc acaattacaa aaggcacaag tgtgaagggt 360
 tcaagtgggt ctgtcataac taacttcagt tattgaatct agttgtcata actg 414

<210> 2653
 <211> 324
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2653

ctaagctctc agcanattca aacgacaata actttntact cggatgtctg attaagttcc 60
 gtaatacatc gagacgctcg aaattgaatg ttgaagctct cagcaaattc aaacgacaat 120
 aactttttac tctgatgtct gattgagtcc cgtaatatat cgagacgctc gaaattgaat 180
 gttgaagctc tcagcaaatt caaacgacaa taacttttta ctccgatgtc tgattaagtc 240
 ccgtaataca ttgagacgct cgaaattgaa tggtggagct cttagcctat tcaaacgaca 300
 attacttttt actccgatgt ctga 324

<210> 2654
 <211> 456
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2654

agccttggag tntccaagt ccaattcgct ttcttttcta ttccagtctt cttctggctt 60
 caatccatca gtgggctttc cttctgtgtc cagcatcttg ggatgttccc agcctttgat 120

gacagctttc caggttctgc tatccagtga tttgaggaag gccaccatcc ttgctttcca 180
gtattcatag ttggttccat ccagaattgg tggctgttgc actggtcctc cttctttctc 240
catgttcac cagaatttate tccctaggtc tcaactcagt atttcgagtg cctgctctga 300
taccaattga aattctgata ccaatgccag atgtcgtaca ggatgtcacg acatcacgct 360
tcagaacatg cagattatct ctgagtgtat gaacagatta aacaagtaa taacacaaga 420
gaattgtaac ccagttcggc caacctccct acatct 456

<210> 2655
<211> 455
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 2655

cactagagag gacgtaagct tgtatcaa tcaaacgaca ataacgttnt actcggatgt 60
ttgattgcgt ctgtaatat atcgagacgc tcgaaattga aaacggatgc tcgtagcaaa 120
tgcaaaccgc aataactttt aactcggatg tatgattgag taccataata gatcgagacg 180
ctcgaaattg aaaaaagaag ttctgagcaa attcaaacga ctataacttt ttactcggat 240
gtctgattga gtcccgtaat atatcgagga gctcgaaatt gagaacagaa gctctgagca 300
taatcaaacc aaaataactt tatattcgga tttgcgattg agtcccgtaa tatatgaaga 360
cgctccaaat tgaaaacaga agctctgaac acattcaaac gacaatgact ctttactcgg 420
atgtccgatt gagtcccgta atatatcgag acgca 455

<210> 2656
<211> 438
<212> DNA
<213> Glycine max
<400> 2656

agctttgagc caattcaaac gacaataacg tttttctctt atgtctgatt gagtcccgtc 60
atatatcgag acgctcgaaa ttgaatattg aagctctgag ccaattcaaa cgacaataac 120
tttttactcg gatgtctaatt tgagtcccgat aatataacga gacgctcgaa attgaatggt 180
gaagctctga gctaatacaa acgacaataa ctgttttctc ggatgtctgg ttgagtcccg 240

taacatatcg agaccctcga aattgaatgt tgaatctctg agccaattca aacgacaata 300
aattctttact cagatgtttg attgagtgtc gtaacatc gagacgctcg aaattgaatg 360
ttgaagctct aagccaattc aaacgacaat caacttctac tcggatgtct gattgagtcc 420
cgtaatatat cgagacgc 438

<210> 2657
<211> 456
<212> DNA
<213> Glycine max

<400> 2657

cttgatggtg tcgagaagaa atcacatggtt tgtcatcatc aaaaaggggg agaatgtgaa 60
tgtatgtata catgattttg atgatgcaa agaaaaatca aacaagggtg cttcaaatga 120
taagcatttg cttcaagaat aattcaagag tgcttcaaca aacaaagcct tgtttcaaga 180
ttcactaaag accaagcctt gccttaaaac aaagtgtctt caagacatgc aaggctctgg 240
taatcaatta ccaggaagtg taatcgatta ccagaagaca gggttgagaa atagctgttg 300
aaaaaggttt tgaatttgaa ttttcaacat gtaatcgatt accatatgtc tgtaatcgat 360
taccagcaac gaaactttgg aaattcaaat tcaaaagtca taacccttca aattataact 420
gtgtaatcga ttacacaaac attgtaatcg attacc 456

<210> 2658
<211> 475
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2658

agctntctcc actaagttgc ctgatgcctg atatgtcttt tctaattgga gtggctctag 60
atgcaaggaa gaatttctcc aagaacaccc tottaaggte atcccaactg aaaatggacc 120
tgcgagcact gtagtatatc caatcttttg ccaactccctc cagagaataa ggaaaagcct 180
ttataaagat atgatcttct tggacatcag ggggctatat ggtggaacaa acaatatgga 240
actccttacg atgcttatga tgatcttcac ctacaagacc atgaaacttg ggcagcaaat 300
gtattagtcc agtcttgaga gcatatggaa caccctcatc aagatattga atgcacaagc 360
tttcgtaagt gaaatcacgt gcatacatct ccctatgagt acttatatga ggtggaagtt 420

gagccgtgct cttagtataa aaattagtag tggaatgttc aacatcagaa tattc 475

<210> 2659
<211> 437
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2659

tnnggattttg tttggggtgt tccaaactta atttanggac tataacttaat tttgtgatat 60
gtttgattac tgtagaaaaa aggttcattt gattatattt atccaagaat tttggactgt 120
ttcaaactca attttgtgac attttgatta ttctaaaaag taccttcact tggatcatatt 180
tatccaaaaa attaattata gattagttaa ttgtttttca tgtaaattta atgtttacca 240
cattaacggt tgaatgattt taaaaattga tcattaagt attattatcg agtatttctca 300
tctatanaaa tgaattaggc ttatgattaa cattatcaag atagactttc ttttattgat 360
attaacaata tanacatatc aaataagttg attatccaac gagacttgan ttttttatca 420
gtaaatatta attatta 437

<210> 2660
<211> 366
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2660

agcttctnga cttgaacttc cacttcattt ctattctcac tcccattcac caactcgacc 60
gcaacagctt ctgcattgac gacactaacg aagccttggc tgtaacttc atgtccagt 120
tgtataacct cctcgacgag cctcccaccg atgttgacac tgcgctcacg ttggccaagt 180
ctttgaaccc caaaattgtc acccttggcg agtacgaagc aagcgtcaca cgtttcggct 240
ttgtcaaccg cttcaagact gcgtttaagt acttctctgc tgtgtttgag tctctggagc 300
ctaatttggc cgcggactcg cgggagaggt ttcattgtga gagtcttctt ctcgggcggc 360
gaatcg 366

<210> 2661
<211> 410

<212> DNA
<213> Glycine max

<400> 2661

tgaaggaaaa ctgaatgcat tgggttaactt ggtaacctag ctgtccttga atcagaaatc 60
tgtacctgtt gcaagggttt gtggtttgtg ctcctctgct gaccaccata cagacctttg 120
cccttccatg cagcaacctt gagcaatcga gcagcctgaa gcttatgctg caaatattta 180
caatagacct cctcaacctc agcacaaaaa tcaaccacag cagaacaatt atgacctctc 240
cagcaacaaa tacaaccctg gatggaggaa tcaccctaac ctcagatggt ccagccctca 300
gcaacaacaa cagcagcctg ctccttcctt ccaaaatggt gctggcccaa gcagaccata 360
cattcctcca ccaatccaac aacagcaaca acctcagaaa caaccaacag 410

<210> 2662
<211> 369
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2662

ttgngttcga tggccccaat gacatctatc ccccatatgg aaaaaggcca aggggcggac 60
ataacattca gaggatgtgg cggaacattg acattgtccg cgtatgcttg acatttatga 120
catttcctta catgggcgca gcaatcgctt tccatagtga gccagtaata accggcccta 180
aggatcttcc tggccatagc atgcccattg gcatgtgtcc caaatgaacc cccgtggatt 240
tcttcaatca tgcagtttgc ctctttggca tctacgcatc gtatgagggt catgttgtgg 300
tttcgtttat acaggatggt accacttaca aagaaaccaa tagccaatct ccttaacggt 360
cttttgtca 369

<210> 2663
<211> 470
<212> DNA
<213> Glycine max

<400> 2663

agcttcagcc tgaatccata aagactgtga gcctttgatt attcgaaatt ggaacagtga 60
caacccgata cattgtgagg ccattaaaga aaaatcaggt caatacaaca ggggacccta 120

tatgaatttg aaacaaagta taaaatttaa gcaaacatgt ttgacataga cacaaaattg 180
gaagagacgc tggttaagta cctaatacata ccaccataaa ctacaccctt ctgtggatct 240
ttccagcatc tgaaaagggtc ttgaatgagt tcttctcgat gaggtgagc acaaaccagt 300
cctgcatact ttgttacttc aggccagtcc tgggaggcta caacctggat taccgtaatc 360
agtatatatc aaacataggg catcccttag ttgtatatat gagtttggaa atgcttacag 420
cagcaatgga tggacaagaa tcctctcctg attctggatg aagtacatcg 470

<210> 2664
<211> 438
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 2664

agctngcacc aacaattggt attgctgttg atcatcgctt taagaaccgt tcttttgaaa 60
gtctgcaagc taatgtgcag aggctgaaaa catacaaggc caaattgggt gtgttcccaa 120
gacgggcaca gaaggtaag gtaatacaga tgttcaatta tctgttttga ttgtgtgggc 180
atcttcttaa ttctgatatc atcatttctg gtgaaaggta aaaaggaatg atgtttgtgt 240
gaaatctgac tgttgtttta ttgtaggctg gtgattctac tcccaggag cttgcaaagt 300
caacgcaagt ccagggttct ttcttgcta ttgtgagga gaagccaact gttgaacttg 360
taaaggttac agatgacatg aaggctntta aagcttatta caagcttcga cttgaacgca 420
caaacaaacg ccattatg 438

<210> 2665
<211> 434
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 2665

gagcaaattc taacgataat agcttggttac tcggatgtcc taattaattc cgtaatatat 60
cgagacactc aaaattgaaa ccaaagctc tgagcaaatt caaatgacaa taacttttta 120
ctcagatgtc tgattgtggc cagtggata tcgagacgct ggaaattcag aatagaagct 180
ctgagcaaaa tcaaacgaca ataaattttt actgggatgt ccgactgtgt cccatagtat 240

atcaagacgc tcaaaattca aaacaaaagc tctgagcaaa ttcaaacaac aataactttt 300
tactcggatg ttcgattgtg tcccgtagta tatcgagacg ctcgtaattg acaatagaag 360
ctctgagcaa attcgtacga taatagctat ntactcggat gtccgaatta atcccgtaat 420
atatcgagac actc 434

<210> 2666
<211> 470
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2666

agcttctntg agaaaacttc cttgagaagc tagatcttat ctacgcacac ccctctaata 60
actaagctta cctccttgag aagcttcctt gaaaagattc ctaaagaagc tagagcttag 120
ctacacacac ctctctaata gctaagctca cctccttgag atgagaagct agaacttagc 180
tacactcccc ctataatagc taagctcacc cctatgacaa aatacatgaa aatacaaaaa 240
aagtccttac tacaaagact actcaaatg cctcgaaata caagggtaaa accctatact 300
actagaatgg ccaaaatata aggcctaaat gaaggaaaaa acctattcta atattttacaa 360
agataagcgg gtcatactt agcctatggg ctcaaaatat accctaaggc tcatgagaac 420
cctagggcct tcccttggat ctctgggcca atctacttgg agtcttctat 470

<210> 2667
<211> 318
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2667

tctagtctnc aatttgaacg tctcgatata ttacccgatt caatcggaca tccaagtaaa 60
aagttattgt cgtttgaatt tactatgagc ttcgattttc aatttggagc gtctcgatat 120
attacaggac tcaaccggac atccgtgtat aaagttattg tcaattcaat tttctcagag 180
cttcggatct aaattttgag cgtctcgata tgttacggga ctcaatcggga catccgagta 240
taaagttatt gtcatttgaa tttgctcaga gcttctagtc tcaattttga gcgtctcgat 300
atattacag actcaatc 318

<210> 2668
 <211> 424
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2668

agcttccatt tntcaattgg agcgtctcga tgtattactt tactcaatcg gacatccttt 60
 gataatgtta ttgtcgtttg aatttgctac gagcttccgt tttcaatttg gagcatctag 120
 atatatttcg ggacacaacc agacatcctg gtataaagac attgtcgttt caatttgctc 180
 agagcttcga ttctaaattt tgagcgtgtc gatataattac gggactctat cggacatccg 240
 agtaaaaagt tattgtcggt tgaatgttct gcgagcttcc gttttcaatt tggagcgtct 300
 cgatatatga caggactcaa ccggacattc gtgtataaag aaattgtcat ttcaatttgc 360
 tcagagcttc tagtctcaat cttgggcgcc tcgatatatt acccgattca atcagacatc 420
 tgag 424

<210> 2669
 <211> 459
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2669

aactaaaact aaacttaaga taaagatggc ctcagcaaac tccttatttc tcaaaaggaa 60
 ttctatcaat agacctccaa tctttaatgg agagggttac cattactgga aaacccgaat 120
 gcaaattttt attgaggcaa tagacctaaa tatttgggaa gccatagaaa tagggcctta 180
 tatacccacc acagtagaaa gaattacaat agatggcagt tcatcaagtg aaagtataac 240
 tatagaaaaa cctacagata gatggtctga agaggataga aaacgagtac aatacaattt 300
 aaaagccaaa aacataataa catctgccct gcgaatgaat gaatatttca nggtttcaaa 360
 ttgtaagagt gctaacgaaa tgtgggacac tcttcgatta cacatgaagg aactacagat 420
 gttaaaagat ctaggataaa tgcactaact catgagtat 459

<210> 2670
 <211> 428
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2670

agcttgtagg gttaaagtct cactgattgtc acgtgctcat gcaacaattg ttagtcgtgg 60
ctatacgaga catcttgcca aacaaagtca ggtaacgat aactcgctg tgctttttct 120
tccatgctat atgtagcaaa gtcattgatc cagtaatgtt tgatgagttg gaaaatgagg 180
ccgcaattat actgtgccaa ttggagatgt attttcccc tgctttcttt gacatcatga 240
ttcacttgat tgtgcatctg gtcagagaaa tcaaagtgtg tggctcctgtt tatctacggt 300
ggatgtaccc ggttgagcga tacatgaaga tcttaagagg gtatacaaag aatctatatc 360
atccagaagc atctattgtt gagaggtaca ttgcagaaga agccattgaa tntttgttca 420
gaatactt 428

<210> 2671

<211> 455

<212> DNA

<213> Glycine max

<400> 2671

tctagacaaa ggctatcctc ttctgaaact tccagatgac atttaccctc tgctaaagct 60
gaaaatggcg acgaggaatg acgagaagca gatcccatc gagagtgtt gatgctgatg 120
tttcaaaaga aaagaaaaag cctaaagaag gtgataatgt tgttgaagaa gctccctcag 180
atataccatc tctaatagag ttgaagtgga tctaatatga actaatgatt cggttaattga 240
ttccctactt gttgtctaata ttgtcttgtt caatccgctg cttgtgacat cctctacccc 300
acacatatat gtactaataa taaaagaaat aggaatgagg aattaattaa atgttttaa 360
acacatttaa ataaaaacat ttcaaaagag taaaagattc acattcactt ttctaataatc 420
ataatagaac ttgtccaaat aaataacaaa attat 455

<210> 2672

<211> 462

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2672

1147

agcttcaaga attatggcct catcaaacta cttgtttctc tagggagatt ctataaatag 60
acctcccatc tttaatggag tgggttacca ctactggaaa acccgcatgc aaatctttat 120
agaggcaata gatttaaata tttgggaagc catagaacaa ggaccttatg ttccctctat 180
aatggccgga agtgcaacaa tagataaacc tagagcagat tggactgagg aagacagaag 240
attagtacaa tataatttac aggccaaaaa tattattata tctgccctat gaatagatga 300
atactctacg gtttcatatt gtcaaagtga taaggatatg tgggatacac tacaagtaac 360
acatgaaggc acgacagatg ttaaaagatc tangataaac actttaactc gtgaatatga 420
actntctang atgaatgtan atgaaagtat acaagacatg ca 462

<210> 2673
<211> 434
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 2673

ttgngtggag tgacaaaagc ttcactgaat tgcttgtcat gttgaagaag atgcttcttg 60
aaaataatat gttgctgaaa aatcactacg aggcaaagaa tatcgtatgt cctatgggca 120
tggagtacca gaaaatacat gcatgcccta atgattgcat attgtacaga aatcagtttt 180
ccgacatgca caaatgcccc aaatgtggtg tatcacggta caaagtaa at gatgatcaag 240
gtagtcaaca tgcaaccaca accaatgatc gtccaacaaa ggtgtgctgg tatctttcaa 300
taattccaag gtttaagtga ttgtttgcta atgaacatga tgccaaaaat cttacatggc 360
atgttgatgg caaagaaagt gatggattgc tccgacatct ggctgattca cccaatgga 420
agaccattga tcga 434

<210> 2674
<211> 445
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 2674

ttgagccaat tcaaacgaca ataactttnt actcggatgt ctgattgagt cccgtaatat 60
aacgagaccc tcgaaattga atgttgaatc tctgacaaaa ttcaaacgac aatagctttt 120

tactgggatg tctgattgag tcccataaca tatcgagacg ctcgaaattg aatggtgaac 180
ctctgagcca attcaaacga caataacggt ttactcgat atctgattga gtcccgaat 240
atatcgagac gctcgaaatt gaatgttgaa cctctgagca aattcaaacg acaataactn 300
tttactcgga tgtctgattg agtcccgtaa tatatcgaga cgctcgaaag tgaatgttga 360
agctctgagc caattcaaac gacaataact ttttactcgg atgtctgatt gagtcccgt 420
atatatcgag acgctcgaaa ttgaa 445

<210> 2675
<211> 459
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 2675

agctnngtat ccatgaggat tcatataaca aggtaaagat tgttgaattg ctcaagtact 60
actccaccaa gagtggatg aagatgagga aggtcagagt gaaatctact acatcacagg 120
tgaaagcaag aaggtcatta agaactctcc attcttggag aagttgaaga agaattggtgt 180
actgtccaag acccacaaaa tttatgtgac atctacttg gcccttaca acacatgtca 240
accttccacg tcagccctgc tacaggagca cagacgctg actcttagta gtcgggctcc 300
ccaacaaata gggtatctca aacctaaata atattcaaat atatttgaat atcttatcta 360
ttggcaggta ttaaattatc tataacatca tattatctac aaggataaaa tgtatgatta 420
tcttctacct ttgtctataa tccaaatgtn tatctctaa 459

<210> 2676
<211> 429
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 2676

agctntaagg tagatattgg gcttatgggt ctttttctag cccacttata tttgtacata 60
ttagattagg gtttcattat ttttggacct tgtatttaag gctccatagt gtagggaggg 120
tatcctagta atgtaggatt tttcatccct tgtatattag ggcacctaga ctagtttttg 180
tattaggggt agttttctaa tttcacatgc attaagtga ctatttgatg tgtgtgtgtt 240

gggagagaaa tttaattgaa ttggggagaag cccaatccaa ctaaattattg gaacttccta 300
 aggnngaggt gagtatttgc ttgttacacc ccattgccac atcatatagt cacactctgt 360
 gcatgtcctt catgttntac atgcctcatg acacctaagc aaaactagca gagaatcttg 420
 gacttgatc 429

<210> 2677
 <211> 466
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2677

agctataaat ntatggtata agccataaca ccatatatta ttacaaaggt aagaaaaagt 60
 caaataaaac aatcaaactt tcccaaagat ggcactcttt ctacagctac tccaagatgc 120
 tatagaataa agtcaaagag attagcacia aataggacia atgaataaaa tgataagtta 180
 acataaactc attgtcataa tcttttattt atttttataa ttattacata actcccttgc 240
 ttctaattcc acttccaaac atatcctaga tattttttta tttataaaac atnttttcat 300
 aataattaat ggattttaatc aacaaataac taacaataga atntaataat ttagttatga 360
 aaaaaatattc aggagtacat aatattttgcc gttcntattt gagaaggaca caatatttag 420
 ccagaacttt aagacacaca atgattaacc attgagtaaa cacata 466

<210> 2678
 <211> 452
 <212> DNA
 <213> Glycine max
 <400> 2678

actaagctta tggaaacttt ccaaagtcac ctatctataa ctattccata caagtacgct 60
 taaatatgaa gtttgtaagt gatggatgac tgaaaaatac atcttattta tattgataat 120
 actaattaat tcttttaggt catgcttaga tgtacatacc atgcccacac aacatctaaa 180
 tctctatcat tttggtgtga ttcgattgag tattacattg ctgttgatat ctacttaatt 240
 cttattttca tttatctaaa attaaagatt atgtttttga agcaatgcaa tatttggtgtt 300
 tgatatttct ttatattcta agatgatata ttatcggtag caaccatata catattattg 360
 ctcttacttc atcttagttt aaaagaattt gcacaataaa taataaaaat atttggttcgt 420

tactctctta gtaaactcta aaatataaaa at

452

<210> 2679
<211> 467
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2679

agaaactcga gcttatatga caatggtgga taactccac cttggaagct ctgattatgt 60
gatagtgcta aaatgaaggc ctggtattga gattcatcaa ttattcttag gagtttcatt 120
tctattcacc atcaatgtaa aattttttgt attatcaatc aataaaaaat catattagat 180
aattatcaga aaaatcaata aacttattat atatgacata atagttaaag attgataaca 240
atgtaaaagt caataaatac tatgagtttc tcaatgtttt tagtcacaac ttggcacttc 300
ccatggcagg tcacaaagct catggatagg gtggaaaaaa cattcactaa gcacttctac 360
aactcanatc gtaataaagc catgagcatc ttaagaccaa aagcaaaaag agaaagacat 420
agagttacat tttccacggg taagcaccaa gatattcatg tatatat 467

<210> 2680
<211> 442
<212> DNA
<213> Glycine max

<400> 2680

tgtccaccgt agcctttgcc aatattgcat tataaattat tgatgtgaaa ctttaattat 60
gatggaacaa caatgctaaa aataacttaag tttaagtaac tgcacataag gtttgcctt 120
ctaagaatag ttggagagtc tgatattctt attaaaattg aaattggttt tgcaattgca 180
tgcaggcctg tatcaggggc ttccatgaac cctgcaagaa gtattggtcc ggcaattatc 240
aaacatgttt accaagggtt atggatatac gtagttggtc caattgttgg atccatagct 300
ggagcacttg cctataatct tcttagatcc ccatacaagc caccatcaga ataaaccaca 360
tggctggctt tcttgaagag cagtgaataa accacatgct gtctaataat gtaccagtg 420
ccaaaaaact cctcgctata tg 442

<210> 2681

<211> 437
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2681

tgtgaagctc ctgttntagc tttacccgat tntactcaac catttgaagt tgaatgtgat 60
 gctagtggag ttggcattgg ggctgttttg atacaaaaca aaaggcctat agcttatttc 120
 tcggagaaat tgggaggagc cagattgaac tattgcacct atgacaaaga gttctatgcc 180
 attgtgagag ctcttgatca ttggaatcat tatttgcgtt ctaatcactt tatattgcat 240
 tcagatcatg agtcattgaa gtatatcaat gggcagcaga agttgagtcc aaggcatgct 300
 aaatgggttg aatttcttca atcttttaat ttctcttcaa aatacaagga tggtaagagt 360
 aatgtggtgg ctgatgcact ttcaaggagg tatgctttaa tttcaattct tgaaactcgt 420
 ttacttggtt ttgagac 437

<210> 2682
 <211> 456
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2682

agcttatata tatgtnttat taatatactt attttaatct gaacgtcttt ataattctga 60
 ttgtatttat gtgctctcaa tatattgata tattataaag ttgaaaatta tattcatcca 120
 atatgatttt atgacttaac atgttaagaa agctaactag taatattttt taatcacata 180
 tcacattcta atttgcataa aagagagaca taaaatataa taacacactt taatttattt 240
 ataagaataa tatagaataa tataaaaaat attatgaaat cataactttt ttgtaaacga 300
 aaattagact ctcttttagtt gtaggtccaa tatcattgca cctttaaacy acgtttaaga 360
 cctgaataga nacatataat acatcgacct gatcaacata tgtgaattgc tctaacttaa 420
 tgatcacagt gttatagcaa gtatcatctt cattct 456

<210> 2683
 <211> 455
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 2683

gaaactaagc ttcacactt tggcaagaac atttggagga gatcaagtag tgggtcaatac 60
aaatagagta atggggacat agtaagtact taatgagtca catattttca tattatgatg 120
caaccattt tgacatccaa attttaattn tgtgtgtcta ctgcagtggc tatatgccta 180
ttgaatatgc attgatggat cttttttaat caaatctaata gtgttcagct ttgggtgtact 240
tgtattggag ataattagt ggggaaagaa taaaaaattt cacaactctc agcatcatca 300
aaattttctt agtcatgtaa gattaaagtc tatattaatt tccttatctt gatgtattat 360
ttcaagttgc aatcatccaa tactaactgt tgtgtcctaa ttaaacaatgc acgattctct 420
gattcggata gctataaatg gaaatgttaa aaatt 455

<210> 2684
<211> 419
<212> DNA
<213> Glycine max

<400> 2684

agcttgcctt gccccttgat atatatgaag gactcatggt cactatgaat gacaaattcc 60
ttgggataaa gatagtgtag ccatgttttc aaagctcgta ctaaagcata caactcctta 120
tcataagttg aatagttaag ggtaggacca cttaactttt cactaaaata agcaattgga 180
tggccttatt gcatcaacac agcctcaatc ccaacatttg aagcatcaca ctcaatttca 240
aaagattttt gaaagtttgg caacgcaagt atgggggcat tagctaactt ttgcttaaga 300
acattgaaag cttcttcttg tttctctccc catttgaaac caacattctt cttgagcact 360
tcattgagag gtgctgcaa tgtgctaaaa tccttcacaa atctgctata aaaacttgc 419

<210> 2685
<211> 392
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2685

gggatcctta agtcacctgc tgctgcagct tgtttccaan acaagttaaa ttatttttct 60
agtcttcaca acctaaactct agctttctct tcccatgtc aactatgcaa cttgcaatca 120

aaatgaatgg ccttccaag attacaacga tgtcagtatc ttcataagata tccatgacca 180
 caaagactgc tgcaagata aaatgcttta ccttgaccaa cacgtcttca atcactccat 240
 agggcctgcg gatggagcga tcaactaatt gcatagtcac tcgagtggac ataactctta 300
 actctcccag tcttctgcac atggaagagg catcaaatta atgatggctc acagatcaat 360
 cagagtcttt ctctctctta ttgaacaagg at 392

<210> 2686
 <211> 433
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2686

tgcttaacta tgtatggcaa aatntcatta ctgttggtca agacatacaa gtgaacttgt 60
 aacanatctt ctacacttgg agtgatcaca tgtagtcctc ttgaaccctt accaccact 120
 ctgtcatcat gccgagactc angaaggcca acaggtttag ccttctctaa gtattctgaa 180
 caaaattcaa tggcttcttc tgcaatgtac ctctcaacaa tagaagcttc tggatgatat 240
 agattctttg tataccctct taaaatcttt atgtatcgtt caaccgggta catccaccgt 300
 agataaacag gaccacaaca tttgatttct ctgaccagat gcacaatcaa gtgaatcatg 360
 atgtcaaaga aagcacgggg aagatacata tccaactggc acagtataat tgcggggtca 420
 tttccaactc atc 433

<210> 2687
 <211> 359
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2687

aatagtgtct agcgtgtaaa tagaatataa tagaatattt tcatgtctag ttctactttt 60
 ctttattata tattntttgt gaaattaaaa gatgctctct tttattttat gccctgtttt 120
 gtttatacac aaaatataaa atatattttt tgcgttatac tctgtcttat tttaacacgt 180
 taatcaaag caatcttaaa accactaacc aaagattatc taagagcaaa tgaaatggga 240
 gagaaaatgg aataaaaaat cgaaggaatc tacatatata ttgttaagtc attgaagttc 300

acatgatgga atgttgaaaa aagagcggta atatctatct atctctctct ctctctctc 359

<210> 2688
 <211> 432
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2688

ttcgtgttaa tggacgtgaa taatacttcc gattaccatn ttctctctct ctctctctct 60
 ttctctcttc tgtgggagga cccttggggc tcgaatacca agcataaacac tgttctacaa 120
 ctgtggttgg tgatcaggta cgagatatga agtatgaagt ggcgtgggag cggcgagcgc 180
 aaagtaattg ttgatgatgg cgagaaagat tatacacata aaacataaag actggattta 240
 gaattatgaa gataggaatt aaatacggat cataatattc tcttatagaa catttaatca 300
 aaattgaata atatcagatt atgaaaaacc attgaacttt aattaataag ataagaatta 360
 aattatatta tctgatgcga taatataagt cacgtgatat ctcataatta cataatataa 420
 atcatatcaa ta 432

<210> 2689
 <211> 408
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2689

agctntctgt ttcaattgga gcgtctcgat atattactgt actcaatttg acatccgaat 60
 ataaagtttt cttcgtttga atntgctcag agcttctgtt ctcaattccg tgcgtctcga 120
 tatattacgg gactcaatcg gacatccgag taaaaagtta ttgtcgtttg aatttggtca 180
 gagcttctgt tttcaattgg gagcgtcttc atatattacg ggactcaatc gcaaatgcga 240
 atataaagtt attgtggttt gaatatggtc agagctttct gtctcaattt cgagcttctc 300
 aatatattac gggactcatt cggacatccg agtaaaaagt tatcgtcggt tgaatttgct 360
 cagaacttct gttttcaatt tcgagcgtct cgatctatta tgggactc 408

<210> 2690
 <211> 510
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2690

ccttgcccca tgatatat ttt gagggactta tgatcactat gaatgacaaa ttccttgtga 60
taaaggtagt gttgccatgt tttcaaagcc cgtactaagg catacaactc ctaatcataa 120
gttgaatagt taagggtagg accacttagc tcttcactaa aataagcaat tggatggcct 180
tcttgcatca acacagcccc aatcccaaca tttgaagcat cacactcaat ttcaaaagat 240
ttttgaaagt ttggcaacgc gagtatggng gcattaatta gcttttgcta caaacattga 300
nnagctcttc tcgtttctct ccccat tttga aacgcaacat tttcttgagc acttcattga 360
gagggtgctgc caatgtgcta aaatccttca caaatcgtct ataaaaactt gctaagccat 420
gtgtcgcaac ctacccttca gcgaggagggc gatgcgtgac tcgtcggatg cgtgttccac 480
gaaaggaata cgcgcgaggt cgccactaat 510

<210> 2691

<211> 254

<212> DNA

<213> Glycine max

<400> 2691

tattctcaac agtcacatct ttttatttgg gtcttgaatg gctatcaaag acctatatat 60
atgtgacttg agacacaaat ttgagaagag tttttcagaa caaaaagggtc ttatcctctt 120
aaaaagcata atcagttcat cctcttaaaa aattcttggc caaaacactc gtgattcaat 180
aaggaattat ttgagtgtc aaattgttca atctatctct ttcaagagag aatacttctt 240
ctcttcttct ttat 254

<210> 2692

<211> 312

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2692

cgtaaatcca tggaagctcc taatatctcc cacactnntt gnggtgggtc attcttggat 60
ggccttgatt ntctcaagtt ccacttgga cccatttcta ccaactacaa aacctaagaa 120

atnttagttg tggttcagcc cactaatcca aaatcaagtc caagattctc cactaagtgt 480

<210> 2695
<211> 266
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2695

agaatcaatg acaatgctta caaagntgag ctgcccgggtg agtataatgt taattccacc 60
ttcaatgtct ctgatttatac tctttttgat gcagatggag aatctgattt gaggacaaat 120
ccttctcaag agggagagaa tgatgaggac atgaccaaga gcaagggcaa ggatccactt 180
gaaagacttg gagggcctat gacaagggct agagcaagga aagccaagga agctcttcaa 240
caagtgtgt ctatactatt tgaata 266

<210> 2696
<211> 524
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2696

agcttcctta agaagattcc taaagaagct agagcttagc tacacatacc tctctaattg 60
ctaagctcac ctccctgaga tgaanagcta gatcttagct acacaccccc tataatagct 120
aagctcacc ccatgacaaa naaacatgaa aatacaaaaa aaaagtcctt actacaaaga 180
ctactcaaaa tgccccgaaa tacaaggcta aaaccctata ctactagaat ggccaaaata 240
caaggcccaa acgaaggaaa aacctattct aatatttaca aagataagtg ggcccatact 300
tagcccatgg gctcaaaaata taccctaagg ctcatgagaa accctgggcc ttccttaga 360
tctctagccc aatctacttg gagtcttcta cccaatgccc ttgcgggata ggattgcac 420
attccctcca ccttgaaaag gatntgacct canatccga ggttcttcat actctgggct 480
ccttcctca acacctggta aaagaacana aacatatgta ttag 524

<210> 2697
<211> 415
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2697

gcttgtggga atttgtgata gtgaatttgc cggagatgtt gatgatatga aaagtactac 60
cagatntgta ttttttatgg gtgattgtgt ttttaaatgg agttctaaga agcaaggcat 120
tgtgacactt tctacttgtg aagccgagta tgtagctgca acttcttgca catgtcantg 180
ccattggcta agaagattgt tggaggaact tcagttgttg caaaaggaaa gcacacagat 240
ctatgttgat aatagatctg cacaagagct tgccaagaat ccggtgtttc atgaacgaag 300
taagcatata gatacaacgt atcatttcat tagagagtgc attaccaaga aagacataga 360
attgactcat gtgaaaactc aagatcaagt tgcggatatt ntcaccaagc ctctc 415

<210> 2698
<211> 411
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2698

agctanacat tatactntga gcgtctcgat atattactgt actcaatcag acatccgagt 60
aaaaagttat tgccgtttga attggctcag aggttcaaaa ttcaatttcg agcgtctcga 120
tatattacgg gactcaatca gacatccgag taaaaagtta ttgtcgtctg aatttgctca 180
tagcttcaac attcaatttc gagcgtctcc atatattacg ggactcagtc agacatccga 240
gtcaaaagtt attgtcgttt gagttggcct agaggttcaa cattcaattt cgagcgtccc 300
gatatattac gagaatgaat cggacatccg agtaaaatgt tattgtcgtt tgacttggct 360
cagagcttca acattcaatt tcgagcgtgt cgatatatta cgggactcaa t 411

<210> 2699
<211> 494
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2699

agcntggat ctcttcttc actaatcaa gaatcaccat gttgagtctt ctctgtggct 60
gtcttactgg tttagctcca tcctctaaat ntattcgatg catacatgtg gatgggctaa 120
taccaggaat gtccgccagg gtccagccta tagccttctt attcttcttg agaacagaca 180

acaacttctc ctcttgctca tcagcaaggg aggcagatat aatcactgga aaacttttgc 240
 tatcatccaa gtaagcgtat ttcatatttg atggcagagg cttcaattct ggtgtgggtcg 300
 gctggatagt ggtagaaaga gatggtttct tcacctgtac ctcataaaga aagtcagagg 360
 tatgtgtact tcctanaata tggttagtcc tatctgactc tataaaatca atctcaagag 420
 gtaaaacacc accaccagac atgcaatcaa tatcacttct agattcactc tcagcatcag 480
 attcagacct atga 494

<210> 2700
 <211> 231
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2700

ttctcaaggt ccacttggac cccatttcta tcaactacaa aacctaagaa aactatatta 60
 tctacacaaa aggtacactt ctctatattt gcataaaggg cgcttttctt aaagactgaa 120
 agaacttgct tgagatgtcc taagngatca tctatgctcc tactatacac ttaaatatcc 180
 tctaaattaa caactacgaa tctacctatg aaatccctta agacatgatg c 231

<210> 2701
 <211> 459
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2701

agcttctgct ccaggatata cnttgagcta ctatggttat tcttgataac aaaatgatta 60
 ggcagtaaat aatgtctcta tttttgaact acaaggacca ctgccaaaag ctctttttca 120
 taggtagata gagattgttg cttcttggtt agtgtcctgt tgaagtangc aatggaatga 180
 gagtctaca ttaaaatcgc ccttatacca aaacctgaag catctacttc aaccacaaaa 240
 tccttggaag aattangaag agataagaca ggagtagaag acagaaacta ttttatatgt 300
 tggaaggcta atatcatcaa agaaaactag caaaaatttt ctaaagaatt gtttgaaaac 360
 aacattcata aggccttgat aggttgcagt agcattcatg aagccaaatg gcatgaacag 420
 gtattcataa tgaccaccat atgttctgaa tgcagtctt 459

<210> 2702
 <211> 322
 <212> DNA
 <213> Glycine max

<400> 2702

tcaacattca atctcgtgcg tctcgatatg ttacgggact caatcatata tccgagaaaa 60
 aagtattatc gtttgaattg gctcacagct tcaacattca atttcgagcg tctcgatatg 120
 ttacgggact caatcagaca tccgagtaaa aaattatggc cgcttgtatt ggctcagagc 180
 ttcaactttc aatttccagc gtctcgatat gttacgggac tcaatcaaac atccgagaaa 240
 aaagttattg tcctttgtat tggctcagag cttcaacatt caatttcgag cgtctcgata 300
 tgttacggga ctcaatcaca ca 322

<210> 2703
 <211> 482
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2703

agctngtaag ccttggatct tcttcatcaa tggagtcctt tgcttcttga agatgaatgg 60
 caatagaatg gagaaagaag atgattggag atgccacttc aaggagaaga tgagtcaaga 120
 agaagctcac caccatagga atccatggat aagagcttga aggtaggaga agatgagtag 180
 agggagaggg agagaaggag cacaaaatth tgtgcctcaa atgaagtctg aactttgaag 240
 tggttaattta aaatgatcaa agttgaanaa atgcacacac atgacctcta tttatagcct 300
 aagtgtcaca caatattgga gggaaatttg aatttctatt caaatntcac tagaattcgt 360
 agagccaaaa tttcactaat tatgattaat gagatttagc tatggtttag ccactaatc 420
 caagatcaag tccaatattc tccactaagt gtgcttaggt gtcattgaggc atgtaaaaca 480
 tg 482

<210> 2704
 <211> 492
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 2704

agcttaataa atcaatctat ggctngaagc aagcctcctg ccaatgggtat ttgaagtttc 60
atgatgtcgt cacttcattt ggctntgaaa agaacatcat ggatcaatgt atataccaca 120
aggtcagtgg gagtaagatt tttttcttgt gttatacgtg gatgacattn tgcttgcaac 180
taatgataag ggtttgctat atgaggtgaa ataatttctc tcaaagaact ttgatatgaa 240
ggatatggga aatgcatttt atgtcattgg cattaagatc catanggaaa gatctcgagg 300
aattntgggt ttgtctcaag agacttatat taacagcatt ttagagagat ttaacatgaa 360
agatngtcac caagtgtagc tcccattgtg aagggtgaca nactcactct gagtcagtgc 420
ccgaaaatga ttgagcgga acacatgana atactccata tgctcagctg ttggaagcct 480
attatgctca ta 492

<210> 2705
<211> 274
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2705

tgcgccgagtg gagcggncctc ttctncagct tcgactgcac catgggtctac ctncgccaga 60
aagatgaccc ctggaactcc atcttcggcg gcgccggcac eggcgggattn ctctccatgc 120
gccagggcct ncccgccagc gcccgcttcg ctgagttcag eggcgtcctt ctgcgtctca 180
tcgaaggcgc cgcatcatg ctcaacaagt tctcatcgc gcagcaaccg atgccgatga 240
ttgtcgatga gcctcttccg nctaacgggc tacc 274

<210> 2706
<211> 477
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2706

agctngatta anatattnta tntagttntg gttcctcttt cttgtatact tcttacactt 60
ctaattgtacc ttggttatgt ctcttttagc attttattct gataaactta ttatccatca 120
tgaaaaaaga aacctactct ttttttagcag atttttgttt gctttgtatg atattaatgt 180

tggaacaggt tggcgaatg acattgggtg gattattggc tcttgggtac attgttgttg 240
 ttagttacaa gcgtgcctcc acaactgtca ataatggcaa nggttcaatg tctttagaaa 300
 ctattgatgt tcttgggtgag acgttcatgg tgatgagagg aactaataga aagggtatgta 360
 cttttttcct atcacactaa atttatgtcc atntaaaatc caatcttctt gattgcattt 420
 actctntact ttcaagttac tcatcagtca tcatgttcac tttatgcaaa taatctt 477

<210> 2707
 <211> 494
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 2707

agcttaataa atcaatctat ggctngaagc aagcctcctg ccaataggta ttgaagtttc 60
 atgatgtcgt cacttcattt ggctttgaaa agaacatcat ggatcaatgt atataccaaa 120
 aggtcagtgg gagtaagatt tttttcttgt gttatacgtg gatgacattt tgcttgcaac 180
 taatgataag ggtttgctat atgaggtgaa ataatttctc tcaaagaact ttgatatgaa 240
 ggatatggga aatgcattnt atgtcattgg cattaagatc catanggaaa gatctcgagg 300
 aattttgggt ttgtctcaag agacttatat taacanattn ttagagagat ttaacatgaa 360
 agattgttac caagtgtagc tcccattgtg aagggtgaca aactcacttt gagtcagtgc 420
 ccgaaaaatg aatttgagcg ggaacacatg anaaatactc catatgcttc acgctgtgga 480
 agccttattt atgc 494

<210> 2708
 <211> 235
 <212> DNA
 <213> Glycine max

 <400> 2708

atacaatgca gcttggatc aaatttgccg cacaaaggaa tgagttacgt gatcttacct 60
 tactacaaag aagctgtggc cattaacgtg ccatgactcc acagtgtctt cagtgttctc 120
 aaacacaacc tctattaagc ctccgaaatc ggcttccatg acagaagttt gaatggagcc 180
 accactacca atggggtagt caaggatact ttccaaggag aacaccctt ggatc 235

<210> 2709
 <211> 192
 <212> DNA
 <213> Glycine max

<400> 2709

catgagcttt cccttaccaa cttcaccaat agcattacca ccattctctt catcatcttc 60
 ctccttatca ttcaactcat tctcaatctt cccacttccc ttctttttct tggctcggat 120
 ataccctatt agctaataag ccaaaaccac agctcctgtc atctgactaa taacaatgcc 180
 agcaacagca cc 192

<210> 2710
 <211> 253
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2710

atgtctgatt tagtcccgaa atatatcgag gcgctcgaaa ttgaatgttg aagctctgag 60
 caaattcaaa cgacaatatc tttttactcg gatgtctgat tgagtccgc aatatattga 120
 gacgctcgat attgaatgtt gaaactctga gcttattcaa acgacaataa ctttttactc 180
 ggatgtctga ttgagtcccg tnatatatcg agacactcga aatggaatgt tgaagctctg 240
 aggatattca aac 253

<210> 2711
 <211> 327
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2711

agcttcaaca ttgaatntag agcgtctcga tatattacct gactcaatca gacatacaag 60
 tgaaaagtta ttatcgtttg aaaatcctca gagcttcggt attcaatttc gagcgtctcg 120
 atatattacg ggactcaatc acacatccgt gtaaaaagtt attgtcgggt gaattagctc 180
 tgaggttcag aattcaattt cgagcgtctc aatagattac cggactcaat cagacatccg 240
 agcaaaaagt tattgtcgggt tgaattagct cagagcttca caatttaatt ttgatcgtct 300

caatatatta ccggaactcaa tcagaca

327

<210> 2712
<211> 282
<212> DNA
<213> Glycine max

<400> 2712

tatgaccatt tgaatttcat gagagcattc attattcaat ttctataatc tcgatacatc 60
atgggcctca atcatactcc catgtcaaaa gttatggccg cttgaattgg accagagctt 120
caatgttcaa tttcgaacgt ctcgatatat tatgtgcctg aatctaacat ccgagtgaag 180
atattctacc atttaaagt ctgagagca ttcgctattc aatttcgagg gtctctgtat 240
attattttcc taaatctgac attcgagtga aaagctatga cc 282

<210> 2713
<211> 400
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2713

gaggaaattc aaacgacaat accttttgac tcttatgtcg gattgagtca cggaatatct 60
cgagacgctt gaaatngaatt accgaagctc tgagcaaatt caaacgacaa taactcttta 120
ctcggatgtc cgatcgagtc acgtaatatg tcgagacgct cgaaatagaa taccgaagct 180
ctgagcaaat tcaaacgaca atacctattg actcggatgt cggattgagt cacgtaatat 240
ctcgagaccg ctcgaaatga ataccgaagc tctgagcgaa ttcaaacgac aataactttt 300
tactcggatg tgcgattgag tcccgttaata tgctgagacg ctcggaattg aataccgaag 360
ctatgagcaa attcaaacga caataacttc ttactcggat 400

<210> 2714
<211> 427
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2714

agctataaca ttcaatttct agcgtctcga tatatttcgg gactcaatca gacatccgag 60

taaaaagtaa ttgtcgtttg aatttgctaa gagctgcggt attcaatttc gagcgtctcg 120
 atatattacg ggactctatc agacatccga gtaaaaattt attgtcgttt gaatttgctc 180
 tgagcttcaa cattcaattt cgagcatccc gatataattac gggactctat cagacatccg 240
 agtaaaaagt tagtgtcatt tgaatttgct ctgagcgtca acattcaatt tcgagcgtct 300
 tgatatatta cgggactcaa tcagacatcc gagtaaaaag ttatgggtcg cttgaattgt 360
 tcagagattc aacattcaat ntcgagcgtc tcgatataatt acgggactca atccgacatc 420
 cgagtaa 427

<210> 2715
 <211> 420
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2715

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 aatgtctctg acttatctct tntttatgca gatggagaat ccgatttgaa gacaaatcct 120
 tctcaaaagg gagacaatga tgaggacatg accaagagta agggcaagga tccacttgaa 180
 ggacttggag gacctatgac aaggggctag agcaggaaaag ccangaagct cttcaacaag 240
 tgtttntcat actatntgaa tacaagccca agtttcaagg agaaaagtcc aagggttgta 300
 gttgtatcat ggcccanatg gaggaggact aaatggcacc actttgtctc aatttagagt 360
 gttagttngc taaataatgg ccaatccctt gtaagtgggtg acaaaatatg tttgggtaat 420

<210> 2716
 <211> 161
 <212> DNA
 <213> Glycine max
 <400> 2716

catagccttc ttccttaatt ctctttgaga gttctgctaa gaattcatgc atatcacttg 60
 ttattgggtg gcatgtatct cctactaaga acacatgcac ttgtctttta atttcaatcc 120
 atctcttacc tggcttcttc actatccccc tattgtgcat a 161

<210> 2717
 <211> 428

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2717

catgcaagct ngtgctattc caagttcatt aatcatacct ttattctcag atgcttcctt 60
 cactccttca gttagggcca tgtattctgc ttcagttggt gaaagagcaa caactgattg 120
 ttgatttgct ttccaactga ttgttggtacc aaacaaagta aacacatatc ctgttaagga 180
 cttccttggtg tctacatttc ctgcaaaatc tgcattctaca tagcctgtga ctactgcctc 240
 gtgtgcttgc ttcttggtacc ttanaccagc tttcaaagaa tccattagat accttaatgt 300
 ccacttcaca gcttcccaat gtgcgctttc aggatctccc atgaatctgc ttataatact 360
 tacaacatga gctaagtcan gtctgtgca aaccatttca tacattatgc ttncaacacc 420
 actggcat 428

<210> 2718
 <211> 457
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2718

tattccatgc aactaatata atatgataga tntgttatat caatatgata ccaataaata 60
 tgcagaataa caatatgata gcaatacatg atagatttga cataataata tgagtttggt 120
 agcacaaaaca caggaataaa gagaattctc tcaaacaaaa agtaattggt acaaaaattc 180
 ttatacatgt aacttccaaa ctaataaagg cttctctaata ataatatgat agatttgaca 240
 taacaaaatg ataccaataa atctgcaaaa caacaatagc atacaaatac atgatagatt 300
 tgacataata atatgagttt gttagcacag acacaggaat aaagagaatt ctctcaaaca 360
 aaaagtaatt ggcactgaaa ttcttatata tgtatacttc aaactaatag aggcttctct 420
 aatgcaagct atttgtagct ntcttaacta actacta 457

<210> 2719
 <211> 237
 <212> DNA
 <213> Glycine max
 <400> 2719

acctatggat gctaactcaa gatcgtgtgt gggataattc tctttcatga atttgagttg 60
tcaagaagca taagccacta cctgtccccg ctgcataagc actccacca aacctatctt 120
gaatgcatca cagtacccca caaagggttc actcgggtcg ggtaacacta aaactgggtgc 180
agtggcttac ctttccttaa aggtacggaa actactctca cactggggca tccacac 237

<210> 2720
<211> 428
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 2720

ctaagctaag ctcccttaact gcacaaggct cnttaatatt gaagagtatt cttgtgggac 60
cttgaccga cgaagacact aacaaaaact tatcttctcc tttttggaca aagtatgaca 120
agttggaggc aagtatatnn tttttccaat aaaccttgga tgcaactgcg atcgtataca 180
ctgtcacata catttttctc tacatgcata acatcgatac aatgtctaac atctagatca 240
gaccaatata gaagatcaaaa gaaaatggac ctcttcttcc atatgcaagt cttactttca 300
tccttcttta gggtatntc agatacagta ttcagggtgt caatccgcta gaagacctcg 360
tgaccagtca atggtatcga cgcagtttcg tgctcttaac ttncattaaa aagctttttc 420
aatcgtct 428

<210> 2721
<211> 411
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 2721

ctgacttgct ttccaatctg acattcacca cagattctgc cttcttctat tttcagattg 60
ggaatgcctc taacagcact tttgtcaagg attntcttca tgctcttaa gtgcagatgt 120
ccaaaccttt gatgccatat tctgacttca tcttctttgg tggatagaca tgtggaggaa 180
tagctcggtt cttgggggtg tcatangtaa caattggtct ttgatctgct tgcttcatt 240
agaacttcac tcttctcatt tgtcaccaag cattctgact ttgtgaagtt tacattgaat 300
tcttcacac acagctgact gatgctcatc aagtttgcaa gcagtcctt caccagcagt 360

actttgtcag actaggaagt catcatgaac tagctttcca ttccaatgat c

411

<210> 2722
<211> 353
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2722

ctcttttaca anttgataaa aacaaaaatt atgcaaaaaa atgaattagg ttatataatt 60
nttttttaaa aagaataatt cagtaaataa ttataaaatt atatggttta aagaatttgt 120
aacagtaatg aatgatataa tgatgatcat tactatcgtg tatatgtaat aacataaaaa 180
tagatataag ggttttctag acaactaaca naaaaagata aaagaacttt tagattgaat 240
aaaaggataa aataaaattt caaataaaat agtatggata atntaaaaaa caacttataa 300
aataatttat tttccataag ttacttcaat tagttaatgg aaaataaact act 353

<210> 2723
<211> 203
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2723

agcttaagaa acagntatag gagttgtggg agaagttggt tgtgatatcc agtgtgtctc 60
catggggagc accagtgttg ntagcgaaga agaaagatgg gaccatgagg ttatgtgtag 120
actatcacca attgaataag gtgacgatta agaataagta ccctttgcct tacctggtag 180
gagcttatgt gtttagcaag ata 203

<210> 2724
<211> 416
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2724

aaataccttc atctgactta gcatcaaatt ttccaaagtt atcttttcca ttattcaata 60
canaacattt acaaccaaag atatgaagat gtgagatggt tggttttctg ccattgaaca 120

attcatatgg agttttcttt aaaatgggtc ttattaaagc cctattttaa atgtagcatg 180
cagtgttaac ggcttcagcc canaagtatt ttggaagagg agtatcattt aatanagttc 240
tagccatctc ttccaaagat ctattnttcc tttcaacaac accattttgt cgaggggttc 300
ttggttnngtg aaaagtatgc tcaattccat gcttttcaca aaataattca aattctttat 360
tttcaaactc accncatga tcaactcctaa tagatataat cttgagaatt ttctta 416

<210> 2725
<211> 238
<212> DNA
<213> Glycine max

<400> 2725

tattccttag tcatatgcc a tgacaataaa caaatctcat ggccagtcac tagaatgtgt 60
cggactttac ttgcccta aatgtaagat ttttcagccc ttgtatttta gggcacctag 120
actagttttg tattaggggt atgtttgtaa tctcacatgc attaagtgca ctatttgatg 180
tgtgtgtgtg ttgggagata aatttaattg aattgggaga agcctaattcc aattaaat 238

<210> 2726
<211> 419
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2726

actaagctgc taccatggaa ctctaattct ccacactnnt tgggtgtgggc cattcttgga 60
tggccgtgat tttctcacgg tccatttgga cccatttct accaactaca aaacctaaga 120
aaactatatt atctacaaa aaggtacact tctctatatt tgcatagagg gtgtttttcc 180
taaggactga aagaactttt ctgagatgac ctaagtgatc atctaggctc ctactatata 240
ctaaaatata atcaaaataa tcaactacaa atctacatat gaaatccctt aagacatgat 300
gcataagcct cataaaggtg cttggtgcat tagtgagccc aaaaggcatc actagccatt 360
catacaaacc aaacttggtc ttgaaagcag ttttcactc atcacccttt ttcacctg 419

<210> 2727
<211> 314
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2727

ccacgctctt gtggcgccca taccgttgca tcaacattca tcatgataag tgtgacacat 60
tntttttctc ataatcgtgc tactcactcg ttaatccac agattggaat tgttcgcgct 120
cagagaaacc aagcccaaaa ccttaacaac ttcacgcatg atgaacaaga agaataagatt 180
gggctgttag acaagtggcc tcagatatct ctaagaagga ggggttgaat taagatatca 240
aagactatnt ctcaattaag attttaactc tcttcttgat taataattac cttatatga 300
ataactcaaag atat 314

<210> 2728
<211> 251
<212> DNA
<213> Glycine max
<400> 2728

tgtactcata gatagattca ataatggttg cataacttatg atgcacatca ccattccctt 60
taatcacatg aagatcatgg agggagtatg aatgttttct tatgctcggc caacacatta 120
aaaatattat atgatatatc ttgtgtggaa gtaggtcaac atttctatta tcaaataagg 180
agtttcaaat tacatgcccc agtacttatt acttcttggg ttgtaattgt atttgaaagg 240
caaatatcac a 251

<210> 2729
<211> 257
<212> DNA
<213> Glycine max
<400> 2729

tcgcgttata tatcgagatc cccggaattg gtaacggagg ctctgagaaa tttctaacga 60
cattaacttt ttactcggat gttcgattgt gtcccgtaat atatcgagac gctcgaaatt 120
caaaatagaa gctttgagcc aaatcaaacg acaattactt ttgactcgga tgtccgatgg 180
agtcctgtaa tatatcgaga cactaaaaat tgaaaacaga ggactgaga aaattcaaac 240
gacaataact ttttaca 257

<210> 2730

<211> 309
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2730

agctngcact tatatatgaa gcatcagata ctaattatta agaattctata gaacctcgag 60
 atatgtacaa ctgcaaacaa caaggcatat gttattcatt caattattca agtcttctaa 120
 ctagcaaaca gaatcaacaa cttaagaaca aaacctgaat caaaatggaa atctttccat 180
 gtttattgga aggaccaccc ttaatttcta atggacatga tgtgcgtgcc aacatctcta 240
 gctcattctg ttcttctttc cgaacagcaa tattctcana ttcagatgaa tgggtgcaatc 300
 atgtaatca 309

<210> 2731
 <211> 346
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2731

tctcgatgtg tattaaattg cttatatatg gattttcact ccttagtctt taaagctaca 60
 ataactagga tgtttgata ttctctggat ataacattga attttctgat tgaatttgct 120
 ctatgggtgt gcacgtgcac ctctacaaca gaatagatgc tctaaaggat caacatgggg 180
 caacttacag tcttgagaag tgcattgat caatctgcat taatggaatc tacataagag 240
 tagaacttgg aggacaantg ggttactata ttgatgtcct tgcattgctc acgaanaact 300
 tgtctganac cttaagagtc attatataac ttataatccc tgcaat 346

<210> 2732
 <211> 318
 <212> DNA
 <213> Glycine max
 <400> 2732

actccctact ttgtcttaca tggcacacac cctaactatt catcggtatg tatcttttgt 60
 tctaaatggg ttcctacac ttgggatgca cgacataaca aattcgacc taaaaccctt 120
 ccttgtgtgg ttggtggata tagtgatata cataaaggat ataaatactt tcattcttct 180

agtaagaaat tttttatctc atgacatggg tgttttgacg agtcattctt tcaatataaa 240
 actaattggg atcatacaat ttcctcttct acacagcatg tagttagcat atttgattct 300
 tggctacctc atactaac 318

<210> 2733
 <211> 430
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2733

agatactaag cttatgttgg tcaagacaga cttgagcata tataatactc ctaactattg 60
 atgcatacta aattgcttnc attcggtttc gttccatctc atttctagga cattgtgcga 120
 gactaaattt gtctcccttc tgaattggaa cgggtgatgc tgagcacttt tncatcctaa 180
 acctctctag tattttattg atatatgctt tctaagacaa gcctaacaat ccttgtgatc 240
 tatttcagaa tatttctatc cctatcacat agcttgccct acccatatcc ttcatttcaa 300
 agttactaga gagaaacttc ttagtgtcat gaagaagact aaaatcatta gttgcangca 360
 atatatcatc aacatacaag attagaaaaa taaccttact tccactggcc tttagatata 420
 tacgccgatc 430

<210> 2734
 <211> 405
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2734

agctnggaac aggaagaatc catcagcaaa gcacctatag ggcttggatc tatatgctac 60
 attcatattc tagacatgaa gaggcacaag cttgaagaca agactatacg aggtatcttc 120
 cttgggtata gcaatatctc taagggtctac cgtgtctaca acttgcaaac taagaaactc 180
 gtcacagtc gagatgttga agttgatgaa tatgcttctt ggaattggga tgaagaanaa 240
 gtggagaaga acgttcttat acctgctcaa ctacctcaag aagaagatga ggaagaagac 300
 ccaggtgaac caccttcacc ttcaccacaa caacaagatc aagaactatc atcaccagag 360
 tetactccaa gacgagtaag atctttggtn acatatatga aacct 405

<210> 2735
 <211> 271
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations.
 <400> 2735

agctataaga aattanatgg tttaggtatc tttttggngc cgattcacga acatcaacta 60
 tttacccgat caaaattaaa cgacggaagc tctcgagaaa ttgaaattat cataactttt 120
 cacacggagg tccgagtcac gcacatcaca tatggagacg cccganattg aaccacggaa 180
 gatctggaga aattcaaattg gtcataactt tgcacacgga ggtccgattc aggcgcatca 240
 tatatggaga cgctcgatat tgaacaacgg a 271

<210> 2736
 <211> 427
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 2736

tgttggtttt cgaaactcga nttgttgcaa ggatatcacc aaattcgtat gcattcctca 60
 aacattgcta caacggcctt tgcactcac cagcaccact gagtttaagg ttatgccctt 120
 cgggctatgc aatgctcatt ccacctttca ggcaacgatg aacatgcttt tccagccatt 180
 cctctgacga tttctaattg tcatctttga tgacatttta atttatagca tcacctttaa 240
 tgatcatgtt cttcatctgc aacaagcttt tcacgttttg ttggacaatc aatgcatctt 300
 gaagttgtcc aaatgtactt ttgctcagcc acaggtggaa taccttggcc atgtggtctc 360
 ccaacgaggg gtggagccag tcaacttcaa ggtggatgct gtgcgccagt ggcccactcc 420
 gcactct 427

<210> 2737
 <211> 455
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 2737

ggccgccacg gagttttctg actatgctct tgtgtggtgg aacaagctac aaaaggagag 60

agcaagaaat gaagagccaa tgggtgatac atggacggag atgtaaaaga tcatgaagaa 120
 gcgggtatgt cccgctagtt actcaaggga cttgaaattc aagctccaaa aactaaccca 180
 aggcaacaag gggggtgagg agtattttcaa ggaaatggat gtgctcatga ttcaagcaaa 240
 tattgaagaa gatgaggagg taactatggc tcaatttctt aatggtttga ctaatgatat 300
 ccgtgatatt gttgagctgt acgagtttgt tgaaatggat gatttgcttc acaaagcaat 360
 ccaagtagag caacaattaa aaaggaaagg agtggctaag aggagtnta ccaactttgg 420
 ttcttctagt tggaaagaca aacgtaagaa agatg 455

<210> 2738
 <211> 430
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2738

agcttcagcc accataatct gatcatccgc aaagaataag tgtgagacat taacccaccg 60
 agaatggatg cgagttacca ttctgaactg aatcttggat gagatgtgcc aatctctgaa 120
 tacacaacac aaatatatag ggagagaacg ggtcccccta tcttctccca cacatggggg 180
 tgaaagaatc aaagggaata ccattccaat taatcgccat aaatgtggaa gacatatgaa 240
 catgaatggc attagccatc caaggcggaa taccaacctt gctgagggtg tcaagagtaa 300
 aatcccattc caccttatca tacgcctttt gaagggtcaa attcaacacc atgtaaccct 360
 ccttaccacg caaattctca aaattaatga agcatgacaa anaggttaat ggagtatttt 420
 tttttcaact 430

<210> 2739
 <211> 249
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2739

atgttggtgt ggatgatttc tccaagatta cctggcgtaa ctttatcaga gagaaatcag 60
 aaacctttga agtattcaaa gagttgagtc taagacttca caggagagaa agactgtgtc 120
 atcaagagat tcaggagtga ccatggcaga gaatntgaaa acagcagggt cactgaattc 180

tgacacatctg aaggcatcac tcatgagttc tctgcagcca ttacaccaca acagaatggg 240
atagttgag 249

<210> 2740
<211> 479
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2740

agctttgcaa gctggaatca tttatcctat ctccgacagc caatgggtga gtcccgtcta 60
ggtagtcccg aagaagaccg gccttacagt gatcaaaaat gagaaggagg agttgattcc 120
tactcgagta cagaacagtt ggagagtctg cattgactat aggaggctga accaagtgac 180
caaaaaggac cattttcccc tgccattcat tgactagatg cttgagcgcc tggcaggtaa 240
atctcactac tgtttccttg atggtttttc tggttatatg caaattacta ttgctcctga 300
ggatcaggaa aagaccacat tcacctgccc cttegccact ttntcctata ggaggatgcc 360
tttcggcctg tgcaatgccc ctggtacctt ccagcgggtgc atgattagta ttttcagtga 420
tttaattaga aaatgcatag aggtgggttat ggatgatttc actgtatatg gatcctctt 479

<210> 2741
<211> 456
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2741

tgttggaata tatncgatca tgaaactacc tttactttct ctttaattcag agatcacagt 60
agaatacgcc cagttaccta cgagtcaaaa gacatcttta cttggaagaa tgaacatagt 120
taaggtaaaa atgaactcat ttcacctgaa gcaagcaagt cttccatct attagaaggc 180
gagttccagc tgctgcttcc tttgcatata tttatagcaa gaaagtgaag tataaaaaact 240
cacgcagaat tcagcatctt ataccttctg tcgcgttccg ccattgatta cttaccattg 300
caacacatat gctcgtcaa aattgtaaag cataacattc acgagaataa agtgaagtgc 360
agtaacaaca accattgatt taatatgcag cacacacata caaaatctga agctatgact 420
acatttattg agctaactan acctaaacag aaattc 456

<210> 2742
 <211> 478
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 2742

agcttgtcat cgattacaca catactataa tcgattacca gaggagattn tcaganaata 60
 ttctcaattg tcacatcttt tcatttggtt cttgaatggc tatcaaaggc ctatatatat 120
 gtgacttgag acacgaattt gctaagagtt tttcagaaca aaaaaagggtc ttatcctctt 180
 aaaaagaaaa atcgtttttat cctcttataa attccttggc caaaacactt gtgattcaat 240
 aaggaattat ttgagtgtc aaattgttca atctatctct ttcaagagag attatttctt 300
 ttcttcttct ttattctgaa aaagaattaa gagatcgagg gtctcttgtt gtaaagaaat 360
 ctgaacacaa aggaaggatt gtccttgtgt ggttcagatc ttgtaatagg ctcttacaag 420
 atagtggaaac tctcaagtgg gttgcttgtg gactgaacgt angcacaagg gtgtgacc 478

<210> 2743
 <211> 463
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 2743

gttcgattcc ttctttntc ttatcgttct cctcatgctg attcagtttc attagttcca 60
 ttctgtgttc ctgtaacttt ccaaataaag ttgcaagaga catgttagaa agatctcttg 120
 attatgtaat agttgttacc ttgggttggc attccttgc taaacatctt agaactttat 180
 taataagatc ctcatggga aatatctttc ctaatgatgc aagatgattt actatgtgtg 240
 tgaatctctt ttgcatgtcc tgtatagttt cattaggatt cattctaaac aattcatatt 300
 catgagttaa ggtattcatt ctagacctct ttatatttgt tgttccttca tgggttactt 360
 gtaaggatc ccacatatct ttgcactct tgcaatttga caccctaaag tattcatcca 420
 ttcctaagt agatgtaatt gtattnttgg ctttttaaata ata 463

<210> 2744
 <211> 448

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2744

tacaatattg cttattacac atgagagatg aatatatc aaattgcact cgtataactt 60
 tgataagtct tacatcattt ttataacttg atatagaatg tgattcttat taatcaaccc 120
 gccgaattat atctatgcat tattaatac atctatgtca aagtttgtca aaattgaata 180
 acaataataa ggtaatacaa tgatttatat tctaataat tttaaaatat ttatattacg 240
 tcgactttta tatataagaa caagataaca agtgattttg gattaatatc aaattttaca 300
 tatgtgacct atgtgaaaaa aaaaaacttt taatccaacg atgagtctta agaaaacata 360
 tccagttgaa agctataata tgatataaaa attatcacag ctatatacat cgaattcgat 420
 ctctctctc tatttctctc tctatata 448

<210> 2745
 <211> 428
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2745

tcttagttnt cgatgatgca gatgagtttg tggctacctc atgcactcct ctaatgacta 60
 tagcatcatt cctagcgcta aactgttggg agttggaagc catcttctta attaaattcc 120
 tggcttcagc aggggtcatg tctccaaggg ctccaccact ggcagcatct atcattcttc 180
 tctccatgtt actgagtcct tcataaaaat attggagaag aagctgctca gaaatctggt 240
 ggtgagggca actagcgcat agttttttta atctctccca gtattcatat aggctctctc 300
 cactgagttg tctaatacct gaaatatcct ttctgatggg cgtggctctg gaagtaggga 360
 catttttttc taagaatact ctcttgaggt catcccagct cgtgatggac cttggcagca 420
 ggtaatat 448

<210> 2746
 <211> 464
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations

<400> 2746

agcttggttag tttcataggg cttgagtctt aacttatcca gctcattcaa ttgttgctac 60
ctgttgctac ctacaagcct aagatcaaag ttataaaact atagagccca catggctttg 120
tgaacaagtt caacaagcaa atggaaattc ttgccataaa ctagactaaa gggagacatc 180
aaagtgggag tcttaaaggt ttttttgtat gccagagtg tggatcatcca attcaatgac 240
caattctttc tagatgctct cacagttttc tctaaaacct tctttagtta cctattagat 300
acctcaactt aaccaattgc ttgaggggtga taaaaagtaa taaccttatg ggtaacacca 360
tatttagcca aaaggctatc aaacaattta atgcanaagt gtgttcccc atcaccaatg 420
attgctcaag gtataccaca gagtgtaaaa atgttctatt tcag 464

<210> 2747

<211> 447

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2747

ctgcagctta ctgaattgct ggtcttattg aagaacatgt cttctgaaca aaacactttg 60
ccgaanaatc actacgaggc caaaaagaat ttgtgtccag tgggaatgga gtacaagaag 120
atccatgcat gccctaata ttgcatattg tatagaaatg agtatgcaga actacagcaa 180
tgccccacgt gtgggggtatc acgatacaaa gtgcaacatg atgaattaac tgatgatgca 240
ngaacaaaaa attgtcatcc tgccaagggtg tgctgggtatc ttccaataat accaaggttt 300
aagcaattgt ttgctaattgc acatgatgca aaaaaccttt catggcattc ggatgaccga 360
aaatctgatg gattactgcg acatcctgcc gattcgccgc agtggaagac aattgatcgt 420
ttgtatccag agtttgggga tgagcca 447

<210> 2748

<211> 346

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2748

atgtgctcgg atcgctcatg atgagcatgg tttgaagcaa gacttatagc ataattatta 60

tcataaaagt acatcacaga gggctcatca accccaaagt gaagaatcta cttgggtgaac 120
cgatcgattt cactactaac agaagacaag acaccatatt tctccttcgt ggatgacttc 180
gaaaccgtgg ataattcctt aaaacnccca aaaagaaagt tattttccaa atagacacac 240
aagtcagaag tggatcttat ggtatcaaca caacgggccc aatcagcatc tgccaatgca 300
gcgatggcga gagagtactg agcaggggaac aacactcctt gtccat 346

<210> 2749
<211> 428
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 2749

tactcagctt aacattcaat ttcgtgcgtc tcgatatgtt acgggactca atcacacatc 60
cgagtaaaaa gttatggacg attgtatcgg ctcatacgtt caactttcaa tgataagcgt 120
ctggatatgt tacgggactc aatcacacat ccgagtataa agttatggtc gtctgaattg 180
gcttagagct tcaacattca atttcgagcg tctcgatatg ttacgggact caatcagaca 240
tccgagaaaa aagttatcgt cgtttgaatt ggctcagagc ttcaacattc aatttcaagc 300
gtctcgatat gttacgggac tcaatcagac atccgagtaa aaagttatgg tcgtttgtat 360
cggtcagag cttcaacatt caatttcnag cgtctnnata tgttacggga ctcaatcaga 420
catccgag 428

<210> 2750
<211> 367
<212> DNA
<213> Glycine max
<400> 2750

acttaattag actgaaggga cacttgacac actcaaacta agtaccctgt ttgacaacat 60
attcacatat ttatcacagc acgtcttgac cctcaacata tatggacaat gagaatcact 120
cagccgtgat tatcaccaat aaactcactt aaggataatt acttgattag aagtggctca 180
acatgattaa aaggtgtatt acacaactgg taatcagcca ttgcagcagc acttcacttc 240
tcttttgacg tatgcaacta tccaacacta ttagaaaata tgctttctac atcggttatt 300
tatgactttc aacatcggtt cttgaccgat gttgaaagac cgaccgtgat agtattatcg 360

ataacat

367

<210> 2751
<211> 437
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2751

agctngccat taattgtaca tctgggtgtgg aaaatatttt ctctttgtgt gtcgtccagt 60
ggctgcatct gacttcacaa gagccttctc accattagca tatcaccctg catagctttc 120
tcctcaagct cttcttccac ctcttcttct tctactgattt cagattcact ggtgattttc 180
ccatctgcct tcatgatcat gggtctctctg gttggacagg caaaagcaat atgtcctctg 240
cctaagcatt tgaagcattt tatgtttctg gtaccggtgt tggatcatgg ggtagaatta 300
tgcttagttc tagctactga cattccatgt gaagactgtg ttgatgggct ggatgagttg 360
cctccctcct tcttgatct gctgggtccac gtctagttga aggtgctgga tgagttcctt 420
cttggtctgcg cttttct 437

<210> 2752
<211> 472
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2752

agcttcctaa tgtgactatg actcataaca tattttttga gagccaatca tgtaattgtg 60
tacatatatt agtattgtac attcaagaat aattgaaaca cattatagat agagaaaaag 120
tgcattaaga gagtgtgcat taagagagtt gcattgtctt atatttttct tatatcataa 180
aagtcttttc aattgtatgc ctattttttt atgtctagat aaattcgtga tgtaactaac 240
tacgaatatt atgcaaaata tcatttaaaa ctttttcaat caagaagaat cattaaactc 300
tgcatacaat tataagtttg taacaataaa cagacaatat taaagaagaa aaataagttt 360
atttggtgaa caagtttatt ttaatgtggg ttttgatctt catcgagaat tcatacagtg 420
gataaaanac gtgacaatta gaagtaatat agtggatttg gtccatgtct tc 472

<210> 2753
 <211> 433
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 2753

agcttgtagc atattcaaac gaccataacg tttaactcgg atgtctgatt gaggcccgta 60
 atatatcgag acactcgaaa ttgaaaacag aagctctgag gaaattcaaa cgactataac 120
 tttttactcg gatgtccgat tgtgtcccggt aatatatcgt gacgctcgaa attgacaaca 180
 taaggtctga gcaaattcaa accgacaata acttntactc agatgtccga ntgagggtccg 240
 taatatatcg agatgcttca aattgaaaat agtagtcctt agcaaattca aaacataata 300
 aatctttact cggatgtccg attgagtcct gtactgtatc gagacgttcg aaattgagaa 360
 cagacgctct gagcaaattc aaacgacact aactgttntc tcggatgtac gattgtgtgc 420
 tttagtatat cta 433

<210> 2754
 <211> 471
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 2754

tagtgaaaat gagttgtgta taagtgagac tcgttggtgt ttgtgaatga tctaattgtg 60
 ttntatttct ttgttttaca tgtcttttca aataaaagaa agaaatnttt ttgatttaat 120
 tacactttta gcctctcaac ttagcataat tgaaatttga agatcaaaat cacgaaattg 180
 taaatctaga tttgaatgta gaattagacc tatttttgtt taaaatattc aaatgaacgc 240
 taagttctaa caaaaagaaa aatattactc ctccctaaga ttctatttca tctgtattgc 300
 atattaatta ttttttgact aaaatatattt aaactatttt ctctcttctc taatggagat 360
 tggaaaaaga tgaatagatt ctcaataaac ttaagaatat atttgaaaaa atattaacag 420
 tatagtcaaa attaatggta ataaataatt aacttttcta ataagcataa a 471

<210> 2755
 <211> 437
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 2755

aaccgccgag ccagatggaa aaccaaacia ttggagagag attatggtgt cctcaaagcc 60
aattatgatg ctcttaagct taactttggc accctcaatc aggacaacga agccttacga 120
aagcaggtag aataataata caacatagta taatatctag aagagttgat tttgagtcta 180
attaatttaa aataaaaagt ataggtgaat tttgagtgag aaaacaaact tcatgcctga 240
atttcctatt annatttttt ctgggtcgtg cctttcaatc tagaaactat gctcgatgga 300
tctaacctca tgcttgaaat gatcagtagt tttctaatta agagctntct tctcttaatc 360
taaccttctt ttaataataa agaanaactc ttgttgagaa aacgattatc taacaagaaa 420
tatttatatt tgattat 437

<210> 2756
<211> 374
<212> DNA
<213> Glycine max

<400> 2756

tcgcatggag ctacatcaaa taaaacacca aatagactta gtcccaggaa caagccttcc 60
taataggcta acttatagga ctaatccaca agagaccaag gagattgaat cccaagttaa 120
ggaattgttg gagaagggtt gtgtccaata gagccttagt ccttgtgttg tgctgtgtt 180
gttggtgccc aagaaggatg gttagtggag aatgtgtaca gattgtacgg ccatcaacia 240
cataactgtg aagtataggc accccattcc taggctcgat gatatgcttg acgagttgca 300
tggtgcacac atattttcca caattgatct taaaagtggg tatcacaaa taacgatgag 360
agaaggatgat gagt 374

<210> 2757
<211> 403
<212> DNA
<213> Glycine max

<400> 2757

agcttatctc cttgagaagc tttcttaaga agattcctaa agaagctaga gcttagctac 60
acataacctt ttaatagcta agctcacctc cttgagatga gaagctagag cttagctaca 120

caccccctat aatagctaag ctcacccccca tgacaaaata catgaaaata caaaaaaaaa 180
 tccctactac aaagactact caaaatgcct cgaaatacaa gctaaaaccc tatactacta 240
 gaatggcaaa atacaaggcc caaacaagg aaaaaactat tttaatat tttaaatattt acaaagataa 300
 gcgggctcat acttagccca tgggctcaaa atctatccta aggctcatga gaaccctagg 360
 gccttcctt ggatctctgg tccaatctac ttggagtctt ata 403

<210> 2758
 <211> 461
 <212> DNA
 <213> Glycine max
 <400> 2758

ctcattacat ggagactgaa aaagagagaa taagctttat tagtatttgg tttcttttca 60
 gtcctacta cttgatagc tacgcctgtg aactgaaaa ggattgagaa aacacgcttc 120
 ttatTTTTat ttatttatat ctataagata tgagatagag agagctgca ttactattac 180
 tattgagaca tccaatactt gctcatctca aagccattcc tgccataggg atagtcttca 240
 attgtgttct caatctcaga ctgctgtgtc atcacaaaag ggccatgctg aacaactggc 300
 tcattaagtg gttggcctcc aatcagaaca aatctcaaag gctgtgaaga gttattccat 360
 acgctgaggg catcaccttg agtcaaaaaca aggacatggg gtggcacagt tggggatgat 420
 gttggagacc cgaacacttc ttcaccttca attatataaa c 461

<210> 2759
 <211> 473
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2759

agctntatat ttgtacccaa cttcccatTT agagtgggtg cttgtgagat ctattggtgc 60
 tngtccttgg ccatttaatt gtcagaatat gaatatggct ttagtttcat ccttcttgta 120
 ctcaaagct agaaagagag ttgtgaacta tttgctgaga tgtgaatcat tcgggcttct 180
 aactttatat ttttatgcta tgatctctca gtggaagcaa tgctaaagct gaagaccaat 240
 ctctggaagc atggtaaatt tgtcaatagg aatacacctt ttctctctcc tgtaagcata 300
 ttgctgctag gcatttttaa ggttgataat gtacgataca aatgggcagg cttgagcgga 360

aactctctga gcaaaatatg ggcgctcctc ctagctatga agaagctgtc agtgaatctc 420
gcagccctcg tcacagtgaag aggtatgaac tttatacta cagaaagcac tta 473

<210> 2760
<211> 458
<212> DNA
<213> Glycine max

<400> 2760

cgcttctaca gaaatatctt tagtgctata taactcactg gtttaattga ctaccgcatt 60
tgtgtaatcg attacataag tcttcgagaa gttatagata gatctaattgt agtccatgt 120
agagcttgta gtccttgat cttcttcac aatggagacc tttgcttctt gaagatcaat 180
ggcagcgaaa tggaggagga ggaggaaagg tgattggaga cgccacttca aggagaagat 240
gagttaagaa caagctcacc accataggaa accatggata atagcttgaa ggtaggagat 300
gatgactaga ggaagagga gagagggaga atgaggtctg aactttgaag tctaatttct 360
caaatgatca aagttgaaaa atgcacatac aaggccttta tttatagcca cacaaaattg 420
gaggaagat tgaatttcta ttcaaatttc acttgaat 458

<210> 2761
<211> 462
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2761

ntctatctct tctntaaata aagatttggt ggtagagacc ccaactagt gttctgtgtt 60
aacttctaatt gtgtgttttg attgtcctgt ggaagtttct ggtaaaataa ttatgattga 120
tctgatttgt ttgcctttga gccaaattga tgttattcta ggaatggact gggtatcttc 180
caaccatgtc ttgttaaact attttgataa aactatgggtg tttgatgggt ttggagtga 240
taaggatatg atgttcact ctaccaacca agttgtgtga tgaggacatg accaagagca 300
agggcaagga tccacttgaa ggacttgag gacctatgac aagggttaga gcaaggaaat 360
ccaagaaagc tcttcaacaa gtgtgtcca tactatttga atacaagccc aagtttcaag 420
gagaaaagtc caacgttgtg agttgatgag aatcctgaaa ct 462

<210> 2762
 <211> 415
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 2762

tcaacattca atategagcgt tttcgatata ttacgggact gaatcagaca tccgagtaaa 60
 aagttattgt cgttttaatt tgcttagagc ttcggtattg catttcgagc gtctcgatat 120
 attacgggat tcaatcagac atcagagtaa atagttatta tcgttttaac ttgcttagag 180
 cttcgataat caatttcgag cgtctcgata tattacggga ctcantcaga caaccgagta 240
 aaaagttatt gtcgtttgaa tatgctcaaa gcttcggtat tcaatttcga gcgtctcgac 300
 atattacggg actcaatttg acatccgagt aaaacgttat tgctggttga gttttctcag 360
 agcttcggta tgcaatttcg agcgtctcga tatatttcgg gactcaatca gacat 415

<210> 2763
 <211> 449
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 2763

agctntgagc anattcaaac gacaatataa ttttactcgg atgtctgatt gagtcccgt 60
 atatatacag acgctcgaaa ttgaataccg aagctctgag caaattcaaa cgacaataac 120
 tttttgctcg gatgtctgat tgagtcctgt aatatatcga gacgctcgaa attgaatacc 180
 gaagctctga gcaaattcaa acgacaatca ctttttacta ggatggctga ttgagttcac 240
 taatatatcg aaacgctcga aattgaatgt tgacgctctg agcaaattca aacgacgata 300
 actttttact cggatgtctg attgagtcca tgaatatatt gagacgctcg aaattgaata 360
 ccgaatctct gagcaaattc aaacgacaat aactttttac tcggatgtcc gattgggcct 420
 cgtaatatat cgcgacgctc caaattgaa 449

<210> 2764
 <211> 454
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2764

ctcgagaaat tcannatgtc ataactnttc actcggaggt ccgattcagg cgcataatat 60
 atcgacaccc ccgaaattga acaatggaag ctctcgagaa attcaaattg tcataacttt 120
 tcactcagag gacccattca ggcgcataat atatcaagac gctcgaaatt gaacaacgga 180
 agctctcgag aaattcaa at ggtcattact tttcactcgg aggtccgatt caagcgcac 240
 acatatagag acgctcggaa ttgaacaacg gaagctctcg agaaattcaa atggcatag 300
 cttttcactc ggaggtccga ttcacgcgca taatatatcg agacgctcga aattgagcaa 360
 cggaagctgt cgagaaattc aaatgggtcat aactnttcac tcggagatcc gattcaggcg 420
 cataatatat ncagacgctc gaaattgaca acgg 454

<210> 2765
 <211> 395
 <212> DNA
 <213> Glycine max

<400> 2765

agcttccatt gttcaatttc gagcgtctcg atatattatg cgcctgaatc ggtccttcga 60
 gttaagacgt atgaccattt gaatttgcg agagctctcg ttgttcaatt tcgagcgtct 120
 cgatatatta tgcgcctgaa tcggacctcc gagtgaatag atatgaccat ttgaatttgt 180
 cgagagcttc cgttcgttaa ttttgagcgt ctggatatat catgcgccag aatccgactc 240
 cgaggggaata gctatgatca attgaattgt caagagcttc attggtcatg tcgagcgtct 300
 gatatatata gccctgaatc tgccctccgag gaatagtacc accatttgaa tttctcagag 360
 cttccgttgt taatctcgag atcttgatat ttatg 395

<210> 2766
 <211> 462
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2766

tcgtaagacg cctgaacata acatcactaa agctcctttt cccttctttt attggagggc 60
 acaaccggtt aaaaagagcc ttatctgact gtgttgactc atggaaaatt cgggtatcaa 120

ttgcagcagc tagaagattg ttigtctgcag ttattgcatg aatatctcct gttagatgaa 180
gattgaattc atccatggga ataacttggc tatagccacc accagctgca cctnctttaa 240
ttccaaaagt aggtccttgc gatgggtgac gaaggcaggt gactaccta caaaaagaga 300
taagatggga ttatgtatcc agcataactt tgacatacga ttaaagattg tagtttttca 360
ataatatctt gaacccaaat aaccagtga ggcctaaatg atgaatgagc aattcctaca 420
tcctgtcatc tcatcatcac ataagcaaaa aaaanaaaca ca 462

<210> 2767
<211> 232
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 2767

tcggttntaa atttcgagcg tctcgatata ttacgggact caatctgact ttccagtga 60
aagttattgt cgtagaatt tgctgcgagc ttccgttcta aatnttgagc gtctcgatat 120
attacgggac tcaatcggac atccgagtaa aacgctattg tcgttcgaat ttgcaacgag 180
cctctgtttt caattttgag catctccata tgttattgga ctcaatcaga ct 232

<210> 2768
<211> 446
<212> DNA
<213> Glycine max
<400> 2768

agcttgcagc atatgctaac gacaatatca ttctactcgg aagtccgatt gagtcccgt 60
atatatcgag aactcaaaa tttagaaccg aagctcgtag aaaattcgaa cgacaataac 120
atttactcgc gaagtccgat tgagtcccgat aatatatcga gacgctcgaa atttaaaacc 180
gaagctcgta gcaaattcga acgacaataa cttttcactc ggaagccgat tgagtcccg 240
aatatatcga gacgctcgat atttaaaacc aaagctcgca gcaaattgta acgacaataa 300
catttcactc ggaagtccgg ttgagtcccg taatatatcg agacgctcga aatttaaaac 360
cgaagctctc tgcaaatat aacgacaata acatttcact cggaagtcga gtgagtcccg 420
taaatatcag acgctcgaaa ttaaac 446

<210> 2769
 <211> 446
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 2769

tgctttaaga ctgtatattg atatctttag tatgcacacc atgtgttcat ttccttcaac 60
 tgagaacccc attgggtggt ccatacaaac attctctct aaatctccat tcagaaaagc 120
 ggatttcaca tctatttgat gtagctccaa gtcataatgg gctactattg tcatgataat 180
 cctgaaagaa tcctttcgtg agaccagtaa aatgtctctc tataatcaat gtcacttttc 240
 tgagtaaatt ccttagcaac aagtctagcc ttgtaacgtt caaagttgcc atgagagtca 300
 cgtntagtct tgaagaccca cttacaacca actctcttac aacccttgt taattctaca 360
 aggtcccaaa caccattatg ttcctgaaa tctatctctt ctttcatggc atttaaccac 420
 ttctcagaat tatcacaact tatagc 446

<210> 2770
 <211> 438
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 2770

ntatgctcta gctctatggg taggtgacaa ttntatcaaa cacaagtcta tattgagaca 60
 taccaatgag agttttaaat gttgtcctat aagcccaaag tgcacatct agtttaattg 120
 cccaatcttt cctagatgca ctaactgttt tttcaagaat tatttttaac tcgctattgg 180
 acaattctat ttggccacta gtttgtgggt gatatggngt tgcaagcttt tgagtcaccc 240
 atatttagcc aagaggccat caaacaactt attacagaag tcagtgcctt tgtcactaat 300
 gatngctega ggtgtgctaa atctggtgaa aatattntc tttgaaatn tnttaccacc 360
 agagaatcat taatggggag tgctactgct ttttccctct tagacatgta atccaccaca 420
 acangtatat attcatta 438

<210> 2771
 <211> 465
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2771

acggatgctt gagcaattac tgaaactcct tccagcagca atcatacctt ntaccccaana 60
 ccaagcaccg taagtgaagc atactcccca agaaccatac ctgttttagca gtttaagtga 120
 ttagaggtct actgaacaga gaaagttcaa tttcatgcag aaatagaagc tggcagaaaag 180
 aaagaaaaat aacatagagt agaacatact tgagattcat gaataccnc aaaaaaacac 240
 ttcaacgtta taaacaatat caatagaaaa gggtatgana aaagactccc agatgggagg 300
 agcataccat gatccatctg aagcttgtat tggttcaatg aaggtagtgg ctttatcgat 360
 acaatgttgt atctcttctc ggcgatgccc aggatataat ttcctaaatg atgccaaaagc 420
 tcgaatcgct gctgatgtac attccacata actatacgcc ataca 465

<210> 2772
 <211> 396
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2772

ttgttctga tagaatcatt attgataatg cggctatatg aattgcaagg caagtgaaag 60
 aaagggattc atgactntaa agctagatat gtcaaaggta tatgacaagg tggaatggaa 120
 gtttatagaa agggccattt tccatatagg cttttcttan aaatggtaga acttaatttt 180
 gaagtatttc acaatagtct cctttgttgc tatatcaatg gngagcatta taggaaatnt 240
 aagcctcaca aggcttgagc aaaaggatcc tatatccnca tactttntca ttcttttgtgt 300
 tgaaacattg tcaacaataa tctctcaggc aattcaagca acagcaaatt gtggtattat 360
 ggtatgtcat agagctccaa tgggtctctca tgtact 396

<210> 2773
 <211> 446
 <212> DNA
 <213> Glycine max

<400> 2773

agcaagagat taggtgcata tagagctcca gatgtctcgg aattgatata tacagacatt 60
 tgtgggtcat tacatacacc ttcattggaat gatcaacaat attttatatc attcatagac 120

gattactccg gatatgcata cttgtttctt atacatgaac agtcacaatc tctggatgtg 180
 ttcaaaacat ctaaagttga aattgatgat caactaaaca aaagaataaa gtgtgtcata 240
 tctgaccgtg gtggtgaata ctatggtaga tatgacgatt taggtgaaca acgtccggtg 300
 cctattgcct gtacctagag gaatgtggaa tcgttcacac gtacaccatg ccagggtcac 360
 ctagcatgaa tggcgtggct gaaagatgaa acataacttt aaggatatgt gaagaacatg 420
 atttgattc taactaacat agtcac 446

<210> 2774
 <211> 201
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2774

agcttctcga tatattacgt cccatattcg gacatctgtg tganaagtta tgaccattcg 60
 aatttctcta gagcttccat tgggtcaattt cgagagtcta gatgagttat gtacgcgaat 120
 cggacatccg tgtgaaaagt tatgaccatt caaatatctt gagtgtctcc gttgtgcaat 180
 atcgagcgtg tcgatatatt a 201

<210> 2775
 <211> 278
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2775

ctaagctaaa cattcacttt cgagcctcac ttcaacattc aatttcgagc gtctcgatat 60
 atgacgggac tcaatcagac atccgagtaa aaagttattg tcgnttgaaa tggctcagag 120
 cttcaacatt caatttcgag cgtctcgata tatgacggga ctcaatcaga catccgagtt 180
 aaaagttatt gtcatttgaa ttggctcaga gtttcaacat tcaatttcga gggctctgat 240
 atattacggg actcaatcag acatccgaga taaacggt 278

<210> 2776
 <211> 481
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 2776

gacactatga tactaagcta agaaatctta tatggtttan aacaagtgcc ctgtcaatgg 60
tactcttaag tttcatggga taatttcttc atttggtnt gataaaaccc catggatcaa 120
tgcatatacc acaagggttaa cgagagtaaa atatgttttc ttgttttata tgtaaagtat 180
atcttacttg cagccaatga tcgnggtttg ctacatgagg tgaaacaatt tctctctaag 240
aattntgaca tgatgggtat ggggtgatgca ttgtatgtca ttggtattta gattcataga 300
gatagacctc aagggtatttt aggttcatca taggaaacct atattaacaa aatttttagag 360
agattgcaga tgaaagattg ttcactaagt gtcgctccca ttgtgaaggg tgatagggtt 420
aatcagaacc aatacccaaa gaatgacttt aagagggaac aaatgaaaaa cattccttat 480
g 481

<210> 2777
<211> 264
<212> DNA
<213> Glycine max
<400> 2777

tttgatctgg aggacatgtt aatagcttca gctgaagttc ttgggaaggg aagttgtgga 60
acaacataca aagccatctt ggaggatgga acatcagtgg ttgtgaagag gttaagagat 120
gtggcaatgg ggaaaaaaga gttttaacag caaatggaga ttgtccacag actcgatcat 180
catcaaatg tgattcccct tcgtgcttac tactattcca tagatgaaaa actattgggt 240
tatgactact caacagtcgg cagt 264

<210> 2778
<211> 437
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2778

gtgcaagctt gaagtatga tatatttatt attataatac tatgcttatc tatttgntaa 60
gtatgttttg tagttagtta attgagactt gtgggtgtat atcagtgnt tatacttact 120
atnttgattt ggtagtggtg tgtatattac atagagttta tattttatta attaattgac 180

actaaagatg ttatagtttt gctatgatat gattctgaaa attattcgag tcgatgtata 240
 tgtatatggg ttgggtcttg taaacattgc tacgaatgta taatatgata tatgagaata 300
 agtgaagtat gcgatgaatt gtgagctatg aactgtgtag tcacacaact ataataccct 360
 ntaagggcga cgagttcatg cgcaatgagt tttgtgatgg gctccactat gggaactcga 420
 cgaagttaat cactgga 437

<210> 2779
 <211> 422
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2779

tcgagtccta ctagnctctag tcctcttcat attatntatt ctgatgtatg ggggtccaact 60
 tcaataaatt caataaatgg atattcctat tatgtcattt ttattgattt attttcacat 120
 tatgtttgct ggttgatcc aatgaaattc aaatccgaaa tttccattat tttccagtt 180
 nttaaatect ttgttgaaaa ccaataaaat gtcaaaatta aaatttttta tactaacaat 240
 gatgatgaat acattaagtt acggtcgttc cttctaactt atggaatttc tcatttaaca 300
 actccccata cccgtgaata ttacnggaat tttgaatcgt aaaaattggg ggacaagtgg 360
 ccttaataac ttaaggaggg tgaattaagt taaaaaattt ctcgtttaat tgacttctaa 420
 at 422

<210> 2780
 <211> 363
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2780

ctcaagcgct tccattgttc aatatcgagc gtctctatct attatgcgct tgaatcggac 60
 ctccgagtga aaagttaaga ccatttgaat tgctcaagag cttccattaa ccaatttcga 120
 ggggtctgat attttatgtt cctaaatcag acctccgagt taaaagtat gtccatttga 180
 atatctcgag agcttccgnt gtttaatttc gagcgtctct atatgtgatg ctctgaatc 240
 ggacctccga gtgaaaagtt atgaccattt gaatatctcg agagcatncg tggttcaatt 300

tcgaagcggt ctatatgtga tgcgcttgaa tcggacctcc gagtataagt aatgaccatt 360
tga 363

<210> 2781
<211> 342
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2781

ctcagcttca catcagacca cttccagagt gctggagcta cttcacatgg tcttgatggn 60
gcctatgcaa gttgaaagcc ttggaggaaa gaggtatgcc tatgttggtg tggatgattt 120
ctccagattt acctgctca actatatcag agagaaatca gaaaccttg aagtattcaa 180
agagttgagt ctaagacttc aaagagaaaa ggactgtgtc atcaagagaa tcatgagtga 240
ccatggcaga gagtttgata acagcacgtt cactgaattc tgcacatctg aaggcatcac 300
tcatgagttc tctgcagccg atacaccaca acagaatggc at 342

<210> 2782
<211> 305
<212> DNA
<213> Glycine max

<400> 2782

tgagcaacaa acccaggatg ttgctccata taaatatcct cctcaagatc accatggaga 60
aaggcattct taatatcaag ctgatggagg ggctagtgac ggatagcagc catagcaaga 120
aacagacgaa cagtgggtgag tttggcgaca ggagagaaag tgtcacagta atcaatgtca 180
tatacctgtg tgtagccctt agccaccaag cgagtcttaa gccaatcaac cttaccattg 240
tgcccaactt taacagtga gacccatcta caaccacag tggctttatc aggaggaaga 300
gaaac 305

<210> 2783
<211> 389
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2783

tctactcaaa tgtgtatgga ccatccaaat tggatctctt ggtgcaaata tgcatttgtgt 60
 ttccttcatt gatgatttaa ctagaaaagt gtggatttat ttgattaaaa tgaagagtga 120
 tgtgtttgat gtgttcaaaa agttcaaaag gttgatttag aaacaaaata acaaacagat 180
 aaaagtgtta agaacaaacg aagggtggtga gtatgtatta gatgtgtttc gaaacttcta 240
 tgaggtagaa gtgatagtgc atgaaataac attatcctat actccacaac acanaggaac 300
 tattgagaga aagtgtaacg acccgctcg tcgctacgat atcacttact ataaaatatg 360
 acattntcaa ttagaagtaa aagcttcat 389

<210> 2784
 <211> 427
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2784

gtatcttcca ccaaagaagg attccaaagc ttccacctcc acctctctt atagcccana 60
 ataagtcttc ccccatggct tctctatcaa gaattcttcc attggcatca acaatttttag 120
 catctaagac attatcaact ccaaggccat attttctcat catggctcca tatgctcctc 180
 ctgtgatatg cctccaatg cctaagcttg tgcaaaggcc tgcagggaaa ccatgaactg 240
 aactcttctc atatattctg tagtaaactt caccagttgt ggcaccagct tgaacccaag 300
 cagtgttgct ttttacatca acgtcgatgc cgcgagctt gaccaaacc acaactatga 360
 aggggctctc aatttcggag acgtacgaaa ttccctcata gtcatggccc gcacttcgca 420
 ctctaatt 427

<210> 2785
 <211> 380
 <212> DNA
 <213> Glycine max
 <400> 2785

agcttaacat cgaaatctgg taaagcttct tggctggtgc attagaggac atgatataat 60
 actagtatat gaatacatgg ttaatggcag ccttgactcc ttgtttttg gtatgtaatt 120
 gaagaatgct ttgattagat gcactagcgt tatttttttt tttttaactt cagtcacatt 180

taatttacca gcttatgaat cttgattaac ttatctgctt tgcaaataaa aaacagacca 240
aataaaaggt aaatttctgg actggcctca acggctcgac ataatatttg gaatagctag 300
ggggctgttg taccttcac c aagattcccg attaatgatt attcatagag atctcaaggc 360
aagtaatcat ttactcgatg 380

<210> 2786
<211> 494
<212> DNA
<213> Glycine max

<400> 2786

tgtacacatc ttaaggctca aggtcaaata ttatatccc tttctttata tttaccatga 60
aatgacgta tcaatgagaa ataaagcaca attaataaga tggatcaatt aagaaactga 120
tttaaagtaa ataaaataaa atttagttct taaaaattaa attaatttat atatatatat 180
atatatatat atatatatat atatatatgt gtatagataa cttaacgttt gtaaatttca 240
ctccttaaaa tattaaatat tttttttaat taattataat attattttga tgatttgcaa 300
cactttttta tatatgcttt ttatattata attaatgagt tatatgcttt aattttatgc 360
gttaaatagt ttctatttaa atattctaaa aattcaaaat tattaacatg aatattcatg 420
aatatataaa tactaccact aaatgagagt catattcatt attataagtc tttaaagttc 480
catattaataa aata 494

<210> 2787
<211> 343
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2787

cactcggagc tctgattcan gcacatcaca tatatagacg ctcgaaattg aacaacggaa 60
gctctccaga tattcaaatg gtcataactt ttaacttgga ggtccgattc tggcacataa 120
tatatcgaga cgcccgaataa tgaacaacgg aagcacttga gaaaatcaaa tggtcattac 180
ttgtaactcg gaggtcccaa tcaagcacat acatatagag acgctcgaac atgaacaacg 240
gaagttcttg agatattcaa atgattataa cttttaactc ggaggttcga ttcaggcgca 300
taacatatcg aaactcttct aattggacaa tggaagctct tga 343

<210> 2788
 <211> 516
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 2788

atactaagct taacatcaga ccacttccag agtgctggaa ctacttcaca tggacttgat 60
 ggggcctatg caagttgaaa gccttggagg aaagaggtat gcctatgttg ttgtggatga 120
 tttctccaga ttacctgng tcaactttat cagagagaaa tcagaaacct ttgaagtatt 180
 caaagagttg agtctaagac ttcaaagaga agaggactgt gtcacaaaga gaatcacgag 240
 tgaccatggc agagagtttg aaaacagcag gttcactgaa ttctgcacat ctgaaggcat 300
 cactcatgag ttctctgcag ccattacacc acaacagaat ggcatagttg aaaggaaaaa 360
 caggactttg caagaggctg ctanggtcat gttcatgcc aaagaacttc cctataatct 420
 ctgggcttga gccatgaaca cagcatgcta catccacaac agagtcacac ttagaagagg 480
 cactccaacc acactgtatg aaatctggaa agggag 516

<210> 2789
 <211> 401
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 2789

aacacccgcc ttctaatgc tggaccactt cctccactgt ttaattttaaa acctcagggt 60
 gagtttaagt actttctcat agatcagcac aatttattag tgaagtttat ttggaatagc 120
 tntatataaa gccacaatg gatttatttc actacacacg tgatttggtg gtgtgagtgt 180
 tagtctatg acgtgggcct tgtgagggtca gggttatata gcaaattctg taacaaaaac 240
 acaatgatag tggccatttt agcacatata agagtgaatg acaccagatt tatctctnta 300
 atttctgtn tgttggtcat tcatgcagaa ctttctggtg taccctctga tgtcatcaat 360
 cggcttatac cagagcatgc gcgtaaacag aactttatta t 401

<210> 2790
 <211> 359

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2790

actattcctt gcacaaagct tcattagtag caccaaaaac tatgtcatga acataaattt 60
 gcacaagcaa caactcattg tttgatctct tgataaacag tgttttgtct taacctctta 120
 caaaagattg ctcaattaag aaattgctca acctttcata ccaagatata agtgcttggt 180
 tgaaaccata cagtgccttt tctagcttgt aaacatgatt aggatgtttg aagtctacaa 240
 aacctagagg tttctcaaca tatantctct tttcaatgta tccattgaga ataacacttt 300
 tcccatccat ttgatataac ttgaaaccca taatacaagc natagcaaga ataacctaa 359

<210> 2791
 <211> 388
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2791

attccttcat ctgacttagc atataatttt cctaagtttt cttttccatt gtttaataca 60
 gaacatntgc aaccaaagac atgaagatgt gagatgtttg gtttcctacc attgaacagt 120
 tcatatggag ttttctttaa gatgagtctt attaaagccc tattcatgat ataacataca 180
 atatttacgg cttaagccca aaaatattgt ggaagtgaag tatcattcaa taagggttcta 240
 gaaatttctt ctaaagatct atttttccta tcaacaactt catttttgtg aggagtccta 300
 tgtgcagtaa aattatgtca atgccatgct tttcacaaaa tagatcaaat tccttatttt 360
 caaactcacc ccatgatcac tctaata 388

<210> 2792
 <211> 373
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2792

agcttaccba ccagttgtga tttgtaatta gtttatgcaa aaatgtaact gatgatgcgg 60
 caactaacat caatatccaa cgtataatat aaaatgaata tatatatata gatagataga 120

tatatacaac taattcctag aagtggaatg ttgtacacac ctgtgggtta acctctacat 180
 tgttctgggc actcttgact gttactgggt catttgcaag cacactctca agatgagcaa 240
 ggagttcctt agcttggcac gatccanagt ctggatctgc atcctcatag caccaaacia 300
 gtgcagtctg cttggcttca atgggtggatc catcagttgt ttcagtgtat agattcatta 360
 caggttctgc aat 373

<210> 2793
 <211> 493
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2793

ttagagccac ctgcggcatg caagctngaa gacaagacta tacgaggtat cttccttgtg 60
 tatagcaata tctctaaggg ctaccgtgtc tacaacttgc aaactaagaa actcgtcatc 120
 agtcgagatg ttgaagttga tgaatatgct tcatggaatt gggatgaaga aaaagtggag 180
 aagaacgttc ttatactcgt tcaactacct caagaagaag atgaggaaga aaacccaggt 240
 gaaccacctt cacctccatc acaacaacia gaagagatgg agtatccata cagaaaaatt 300
 tgcaccagta gtcgtctta ataagacaaa gctcaactct gatggcacca tacagaaaca 360
 caaggcgagg ctagtagcta agggttactt acagcaaccc ggaattgact acaatgagac 420
 atttgcacca gtagctcgtc ttgataccat aagagctcta atagctcttg tgtcacacia 480
 aggatggagt atc 493

<210> 2794
 <211> 356
 <212> DNA
 <213> Glycine max

<400> 2794

acactataaa actcagctat tatctcttct gtaataaaga cttggtggta gagaccccaa 60
 ctagtgggtc tgtgttaact tctaattgtg gtttggattg tcctgtggaa gtatctggta 120
 aaataattat gattgatctg atctgattgc ctctgagcca aattgatgtt attctatgaa 180
 tggactgggt atcttacaac catgtcttgt taaactatct tgataaaact atgggtgttg 240
 atggttatgg agtgagtaag gatatgatgt tcatctctac caaccaagtt gtgtgatgag 300

gacatgacca agagcaaggg caaggatcca cttgaaggac ttggatgacc tatgac 356

<210> 2795
<211> 230
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2795

acctgcctgg caccgacctg atatgtgatt atcctgaaga acacctctgt gttccaaacc 60
ctgaatgagt ctcttcacaa tggcatcaat ttccgcaacg gctcgagtga ttngagaatc 120
atcatggcca acctggtgac cctgatgac agggctcttca aaatagagcg taataaagga 180
aggaacttga tgagagggtg aatcgaaata gctgagaaca gtgtctactc 230

<210> 2796
<211> 465
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2796

taagctcctt caactgcata aggctctnta atattgaaga gtatccttgt ggaaccttca 60
cccgcgaag acattgacaa aaacttatct tctccttctt ggacaaagta tggcaggctg 120
ggggcaagta aattttcttc ccatcagaca ttggatgcaa ctgtgatcgt ataccatata 180
cagctagatc ttgacgggta ttcaagccat ccttcattct gccttgaatg ttaaagagcg 240
tcccaataac actgtcacaa acatttttct ccacattcat aacatcaata caatgtctaa 300
cgtcaagatc acaccagtac ggaagatcaa agaanatgga cctcttcttc catatgcaac 360
tctgactntt atccttcttt tgggtcttcc caaatatagt attcaggtgt ngaacccgct 420
gatatacctg ctcaccagtc aacgctatca gcgcaatata atgct 465

<210> 2797
<211> 419
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2797

agcttcgata atatTTTTTT atatcctatc gtctatataa tagtcttacg ttactttatt 60
ntagataaga tatagaaata aatttataag cataatgtct ttatcattaa tttcccaatc 120
agttaagca tgtgtatttta ttcttccact catgtaaaat aaaataaaat attttttctt 180
attctaaagt gagatgatgt ctataattat atttgttcat tagagacaaa aaatttctgt 240
caaaatatag attctaaata ataagagtga aaaaaagatt atactacttt ctaagatgac 300
atgttatcta ttatactaata tattctaaaa tttatatcta aagtatttnt aatctactta 360
atagtgctaa acatatnnta tgtaacaatg tataaaaagt aacctttttt aatttcata 419

<210> 2798
<211> 311
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 2798

ttacttgtga aagagagcca tgagggtgag ctcattgggc actctgggat agacaagacc 60
cttgtcgtac tcaaagaaaa gntttgttgg ccccatatga agaaagatgt ccataagcat 120
tgcactaggt gtgtggcttg tttacaagcc aagtctaggg tgatgcctca tgggctatac 180
acacccttac ccatcccatc ttcaccttgn gtagacatta gtatggacta tgccttggg 240
cttcctagac cccaaacagg tgtagaatct atctttgtgg tgggtggacag ggtagcaag 300
atggcacact t 311

<210> 2799
<211> 343
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 2799

cacatggatt tgatggggcc tatgagagtt gaaagccttg gaggaagag gtatgcctat 60
gttgcgtgg atgatttctc cagatatacc tgggtgaact ttatcagaga gaaatcagaa 120
acctttgaag tattcaaaga gttgagtcta agacttcaaa gagagaaaga ctgtgtcatc 180
aagagaatca tgagtgacca tggcagagaa tttgaaaaca gcaggttcac tgaattctgc 240
acatctgaag gcatcactca tgagttctct gcagccatta caccacaaca gaatgggata 300

gttgagagga anaacaggac cttgcaagag gctgctcggg tca

343

<210> 2800
<211> 412
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2800

ntcgtttaca attacgagcg tctcgatata ttccgggact caatcttaca tccgagtaaa 60
aagttattgt catttgaatt tgctcagagc ttctgttttc aatttcgagc gtctcgacat 120
aatatgggac tcaatcatac atcctgtaaa aagtaatcat cgtttgattt ttctaatagc 180
ttctgttttg aattttgagc gtctcgatat actatgggac acaatcggac atacgagtca 240
aaagttattg tcgcttgaat tctctcagag cttctgtttt gaattacgag cgtctcgata 300
tattacggga ctcaatcgga catccgagtc aaaagttatt gtcgttgatt tatctcagag 360
attcagtttt caatttcgag cgtctcgata tactactgga cacaatcgga ca 412

<210> 2801
<211> 243
<212> DNA
<213> Glycine max

<400> 2801

gtgctctaaa cgaactctga aatctgaagc ttaatattca aatgatctaa gtgtgaaaat 60
atgcacacac atgacctcta tttatagcct aagtgtcaca caaaattgga gggaaattcg 120
aatttcactt caatttcact tgaatctgaa attgaatttg cggagccata ctttgagacc 180
aaaatttcac taattatgat tagtgaagtt tagttatggg tcagcccact aatccaagat 240
caa 243

<210> 2802
<211> 430
<212> DNA
<213> Glycine max

<400> 2802

agcttatgac cattcgaatt tctcaagagt ttccgttggt caatttcgag cgtgtagatg 60
agttatgtcc ccgaatcgga catctgtgtg aaaagttatg accattcgat tttctcgaga 120

gcttccgttg ttcaatttcg agcgtctcga tatattatga ccccgaaatcg gacatctgtg 180
 tgaaaacgta tgaccattcc attttctcga gagcttccgt tgttcaattt cgagcgtcta 240
 gatgagttat gtccccgaat cgaacattcg agtgaaaact tatgaccatt cgaatttctc 300
 gagagcttcc gttgttcaat ttcgagcgtc tggatatata atgttcccgga atcgggcatt 360
 cgagtgaat gttgtgacca ttcgattttt ttcgagagctt ccgctgttca attacgagcg 420
 tctcgatata 430

<210> 2803
 <211> 370
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2803

ccttggttac atttgatagt ctntacttga atcttngaaa agcatatcaa aaccatttcc 60
 tttcaggccc tgatcaattc ttgcaaagtc caccattgta agctntgctt cttttgatgc 120
 ttgaacttca ttccattgtt ccttgcagca ttcttgaacg gcatgcacaa tctcgtgacg 180
 agaagtatag gctacgcaaa tcaaaagaac tctctggttg ttgtgagcag taactctcat 240
 tgctttttcc acagaagccc tgacaggctc agtcaatagt tgcaagtctc caatgaaatg 300
 taatcgaaca ccgtattcat tgataagact nttcttgtga agtaactctt caatcttttc 360
 ccgcatcaat 370

<210> 2804
 <211> 321
 <212> DNA
 <213> Glycine max
 <400> 2804

tcatttcage gctcgcatat acgggactcg atctacatac gagagagaag atgttgctgc 60
 tagaatttgc tctgagctct caacattcag tctctagcgt ctcgatatat tacaggactc 120
 gctctgacat ccgtgtagca agttattgca cgatgaattg gctctgaggt tcaaaattca 180
 atttcgagcg tctcgttata ttacgggact caatcagaca tccgagtaaa aagttattgt 240
 cgtttgaatt ggctcagagc ttcaacattc aatttcgagc gtcccgatat attacgtgac 300

tgaatccgac atccgagtaa a

321

<210> 2805
<211> 419
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2805

gctttaagcc aattcatacg acaatatctt tntactctga tgtctgattg agtcccgtaa 60
tataacgaaa cgctcgaaat tgaatgtcta agctttgagc caattctaac gacaataact 120
tcttactcgg atgtccgatt gagtctagta atatatcgac tcgctcgaaa ttgaatgtag 180
aagctctaag cctattcaaa caacaataac gttttactcg gatgtccgat ttagtgacgt 240
aatatatcgg gacgctcgaa attgaatggt gaacctctga gccaaactcaa acgacaataa 300
ctttttactc agatgtctga ttgagtcccg aaatatatcg agacgctcga aattgaatgt 360
taaacctctg agccaattca cactacaata atcttctac⁶ cagatgtctg attgagtcc 419

<210> 2806
<211> 378
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2806

taccctgatg aggatgtccc atatgttctt aatactagac tgatacactt gntgtccaag 60
tatcatgggt ntgcangtga agacctcat aagcatctaa aagaattcca tattgtctgc 120
tccaccatga aacctncaga cgtncaaaag gtcacatctt tctgaaagcc tttcctcatt 180
ctttagaggg agtggcaaag gactggctat attaccttgc tctaagggtcc atcacgagct 240
gggatgacct caaaagagta ttcttagaat aaattttccc tgcctccagg accacgacca 300
tcagaaagga tatttcaggc attangcaac ttagtggaga gagcttatat gaatactggg 360
agagattaaa aaactatg 378

<210> 2807
<211> 454
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2807

agctntntat tntcagtaga tgaagatgaa tctgtggcca cctcatggac acctctaaga 60
gcaatagcat catttcttgc actgagttgt tgggaattgg aagccatctt ctcaatcaaa 120
ttcctagctt cagcaggggt catatcacca agagctccac cattggcagc atcaatcata 180
ctcctctcca tgttgctaag tccctcatag aaatattgaa gaaggagttg ctcagaagtt 240
tggtggtgag gatagcttgc acacaatttc ttgaatcttt cccagtactc atacaagctt 300
tctccactaa gtttctgat gcctgaaatg tcttttctga tggcagtggc cctagatgta 360
gggaagaatt tctccaagaa caccctctta aggttatccc agctgaaaat ggacctgnga 420
gcaaggtagt atagccaatc ttttgccact ccct 454

<210> 2808
<211> 394
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2808

tgctgtgtaa ctatgtataa aatttaatgg aaaacctttc atttaaaaac aatcaagaaa 60
ataaactntc aataaataga cataaataat gggaacacta aatgaggta aagacggaaa 120
aactaaaaca acacttacga caagcttcta acagtgtttt acaacaagat gcgngactg 180
gagaagatgg caattcgcga attacatgct gaaaatgtat agaaataaga aataataata 240
atgtatgacc aacataaagg aatcaatact tcagttttcc atgagaatac cttaacacag 300
tcaccaacaa catgtgcac ctcgtctgga gaaaactcaa ctnttntctgc aaccatatgg 360
canaccaag agcataagaa ttgatgagta attt 394

<210> 2809
<211> 462
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2809

agctntanac ctgagattgg atagtttgca atctctcatt ctaatctaga agtcgtagac 60
aatcaacttc agaaaaaaga agaggagtat tcagatgcaa gaagtcatga aagaagacga 120

agaggcgaac caaggagaga taatcatttg gggagcatta agatgacaat ccctaagttg 180
aaggtaaaaa tgatcctcaa atgtatttgg agtgggagag aaaggttgaa catgtgtttg 240
attgccataa ttattttgag gagaaaaagg ttaaaccagt tgggtgttgaa ttcaccgata 300
atgctagtat atggtgggat caacttgtga ctagtaggca caggaatggt gaaaggccta 360
ttagtatatg ggaggagatg aagaatgtca tgaggagatt tgcacctagc cactatcata 420
gggatttgca cagattacaa actntaattc aaggttccat ga 462

<210> 2810
<211> 398
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2810

tctatatatt agtaatattn tntaaagaaa ataactacta catatgtgtt aaatatataa 60
taacttctaa aattntgttt ttttttataa gatttttttt aaattatcat ttgtattaat 120
ttttttatta aaatatacctt aattatttga ctataaatgc tatagattaa aaagataaac 180
acatttctct ttcttataat gactggataa gaagactaag gcacattaat tattagatag 240
aaagtaataa agttgaaaag gagaaatgat gagtccaata aatntaatat tattaattaa 300
attaattatt ntaaaaaaaaa atacttaaaa aatcttatat ttagatacag agataagata 360
taagataaat aaccaatttc atccttatag ttttcact 398

<210> 2811
<211> 405
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2811

agcttctttn tccgtcatta attctcctcc tctgattcct aatatgtttc atgcgtttta 60
tctttatatt actcctctcc ctatctagat aaagcaatgt taactataaa aactttggca 120
acttttagta atatgagttg ctttgctaac taccaggga gaactagaga aaatgtttga 180
aggtatgcca gcagtattca ctggaatggt aggaggagaa gaactgtccc aagcatatgc 240
cagtggagat gtatttgtca tgccttcaga gtcagagacg cttggttntg tagtttttga 300

ggcgtatgtct tcagggatac ctgtgggtggc ggcacgtgct ggaggtattc ctgatataat 360
ccctgcagat caagatggta aaactagcta tctgtatgat ccacg 405

<210> 2812
<211> 371
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2812

gcttatcgtg aattgttgtc ctggatgtga gaatggaatc gactgcttca ttggtggaag 60
agcccatgat gtagtgtgga agagctgggtg ggggctcgcc gtaaactact tcgaacggca 120
tgagccccgc gcttgaatgg aatgaggtgt tgtacgacca ttctgctaata ggcaagatct 180
agaaccagtc cgtagggcga tgggtgcacaa acgaacggag gtactgctca nagacacgat 240
tgatgacctc tatctgacca tcagcttgtg gatggtaggc ggtgctcatt cacaatgagg 300
tgtcgctcat gcgtgataat tcacgtcaga aatggctaag agagatgggtg tctcggtcgg 360
agaccatact c 371

<210> 2813
<211> 393
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2813

tcaagaaaaa gatggcctca gcaaattcct tatttccaga agggaattct atcaatagac 60
ctncaatctt taatggagag gggtaccact actggaaaac ccgaatgcaa atttttattg 120
aggcaataga tctaaatatc tgggaagcca tagaaatagg gccttatata cccaccacag 180
tagaaagagt ttcaatagat ggtagtcat caagtgaag cataactata gaaaaaccta 240
gagatagatg gtctgaagag gatnnaaaac gagtacaata caacttaaaa gccaaaaaca 300
taataacatc tgccttggga atggatgaat atttcacggt ttcaaattgt aagagtgcta 360
agaanatgtg ggacactctt cgattaacac atg 393

<210> 2814
<211> 459

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2814

agcttgtagg aagttcaaac gacaataaca ttnttctaag atgtccgatt gaatcgggta 60
 atatatcgag acgctcaaaa ttgagacttg aagctctaag ataattgaaa cgacaataac 120
 ttatatacag ggtgtccggt tgagttccgt aatatatcaa gacgctacaa attgaaaacg 180
 gaagctctta gaaaattcaa acgacaataa atatttacac ggatgtccga tagagtggcg 240
 taatatatcg agacgcttca aattgaaaaa agaagctcgt aggaaattcg aacgacaata 300
 tgtttttact cggatgtccg attgagtcgc gtaatattaa aagacgctcg aaattgagag 360
 cagaagctct gagcaatttc aaacggcaat aactttatac tcgtatgtcc tcttgagtcc 420
 cgcaatatat cgagatgctc catattgata acagaagct 459

<210> 2815
 <211> 460
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2815

agcttgcatt catccatttt ttgatgaatt gagggaccca aacacccgtc ttcctaattgc 60
 tcgaccactt cctccactgt ttaattttta acctcagggg gagtttaagt actttctcat 120
 agatcagcac aatttattag tgaagtttat ttggaatagc tttatataaa gccacaatg 180
 gatttatttc actacacacg tgatttggtg gtgtgagtgt tagtcctatg acgtgggcct 240
 tgtgaggtca gggttatata gcaaattctg taaccaaacc acaatgatag tggccatttt 300
 agcacatata agagtgaatg acaccagatt tatctcttta atttctgtt tgttgttcat 360
 tcatgcagaa ctttctggtg taccacctga tgtcatcaat cggcttatac cagagcatgc 420
 gcgtaaacag aacttatnta tggctntgca cacctagcaa 460

<210> 2816
 <211> 444
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations

<400> 2816

agcttgatgc acactgaact gatacagtgc attttttgag gaggaaaaaa gatacaatca 60
tgtaattagc agacaatatt taccatttat tcatttcagc atcattggga taatgctgat 120
acaccattta aatttgcagt gcaataagta ttcattctta caggtcacat accatcaaac 180
tagagtaatg cacaacttat taaaaacata ccagataaca ttgcctctga gtgtgttgat 240
ttctccattg tggccaata cagcataag ttgagcacga tcccagctag ggaaagtatt 300
tgtagaaaac cgtgaatgta tctgcacata tgcataccaa attgtcagta atcatgatta 360
tattcttata acaaaataaa atagtgtaga aaatcaaag cacaagtgt ntttctctca 420
ggtacaatac acagcatata ttaa 444

<210> 2817

<211> 402

<212> DNA

<213> Glycine max

<400> 2817

gtggcctcag atatcttaag aagggggggt gaattaagat attacatact attttcccaa 60
ttaaaattct atcaagttat aaattccctt aataatgaac ttcttaaata ttgattcaaa 120
tagaacaatt tgaatatgaa tataaaacaa taataaataa aggagtctaa gggaagagat 180
agtgcaaaaa tagatttata ctggttcggc cacaccattg tgcctacgtc cagtcccaa 240
gcaaccgct tgagagatcc actatcttgt aaattccttt tacaagttct aaacacacaa 300
ggacaatcct ttctttgtgt ttagaatatc ttacaacaa gataccctcg gtctcttaat 360
cccttagtga attagaaaaa gaagaagaat gaatctctt tg 402

<210> 2818

<211> 411

<212> DNA

<213> Glycine max

<400> 2818

agcttcggta ttcaatttcg agcatttcgg tatattacgg gactcagtcg aacatacgag 60
taaaaactta ttgtcgtttg aatttgctca gagcttcaac attcaatttc gagcgttttg 120
atatattacg gcactctatc ggacatccga gtaaatagtt attgtcgttt gaatttgctc 180

agagcttcgg cattcaagtc cgagcgtctc gatatactac gggacacaat cagaccttcg 240
 agttaaagtc tattgtcgtt tgaatttgct cagagcttcg gcattcaagt ccgagcgtac 300
 ggatatatta cgggtctcaa tcagatatcc gagtaaaaag ttattgtagc ttgaagttgc 360
 tcagagcttc aacattcaat atcgagcgtt tcgatatatt acgagactga a 411

<210> 2819
 <211> 457
 <212> DNA
 <213> Glycine max

<400> 2819

agcttccatt caataaatcg agtcctacta gttctagtcc tcttatatta tttattctga 60
 tgtatggggt ccaacttcaa taaattcaat aaatggatat tcctattatg tcatttttat 120
 tgatttattt tcacattatg tttgctgggt gtatccaatg aaattcaaat ccgaaatttc 180
 cattattttt ccagttttta aatcctttgt tgaaaaccaa taaaatgtca aaattaaaat 240
 tttttatact aacaatgatg atgaatacat taagttacgg tcgttccttc taacttatgg 300
 aatttctcat ttaacaactc cccatacccg tgaatattac ggaatttttg aatcgtaaaa 360
 attggtggac aagtggcctt aataacttaa ggagggtgaa ttaagttaaa aaatttctcg 420
 ttttaattgac ttctaaatcc ccttttaaat ctataag 457

<210> 2820
 <211> 441
 <212> DNA
 <213> Glycine max

<400> 2820

agcttcactg aattgctggt cttattgaag aacatgcttc ctgaacaaaa cactttgccg 60
 aagaatcact acgaggccaa aaagattttg tgtccagtgg gaatggagta caagaagatc 120
 cgtgcatgct ctaatgattg catattgtat agaaatgagt gtgcagaact acagcaatgc 180
 cccacgtgtg gggatatcacg atacaaagtg caacatgatg aattaactga tgatgcagga 240
 accaaaaatt gtcacccctgc caaggtgtgc tggtatcttc caataatacc aaggtttaag 300
 caattgtttg ctaatgcaca tgatgcaaaa aacctttcat ggcatcggga tgaccgaaaa 360
 tctgatggag tactgcgaca tcttgccgat tcgccagagt ggaagacaat tgatcgtttg 420

tatccagagt tcggcgatga g

441

<210> 2821
<211> 451
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2821

tgcatatgat gcagacattc ataatagtat ccctcttcat caaaaccaac aacagcagag 60
taagtatgat atttcaagca acagatacaa tccaggttgg agaaatcatc caaatctgag 120
atgggcaagt cctccacaac aacatcagtc tgtccctcct ttccagaatg ttgttggtcc 180
aagcaagcca tatgttcctc ctccgatgca acagcagcag cagcagtcac aacaaagaca 240
acaagcaact gaggtcctc ctcaaccttc cttagaagag ttagtgaggt aaataaccat 300
ccagaatatg caatctcagc cagagacaag agcctccatt cagagtttga caaattagat 360
agggcagatg gctactcagt tgaaccaagc tcagtcccaa aattntgaca aattgccttc 420
acaaactatg caaaatccga aaaatgtgag t 451

<210> 2822
<211> 449
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2822

agcttatccc atgtctcctt aacggatggt gcatacaaaa tattctcaaa tgcatcatca 60
tctaattgctt gatagatgag gaagagagct ttcttgtctc tttttcttga atcctttaaa 120
gtctcctttt tgtgcttggg atagtgaagt cttatcttgc atctccttat agcctttttc 180
aaccattttc caaacatcat gtgctccaag aagggacttc attttgatgc tccaattatc 240
ataggtgctc ccctttagaa gtggaacttg gaaggatgct gctccattgc ttgtcataac 300
tatagaggaa tttcttatca gaacctaaag tcagatacca ctttggttga aaagagaatg 360
ttatatgaag tatntgaaag agatggagga ggagagaata tttgaaagaa ggctagttct 420
tatttcttga gaaatggttt ggttttgac 449

<210> 2823

<211> 296
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2823

tactaagctt agttacaatt acgagcgtct ccatatatta cgggggtactc aatcgtgaca 60
 tccgagttaa taagttattg gtcttttgac tcttcttaga gcttccgttt tcaattatga 120
 gcgtctcgat atattaatag gctcaatang acatccgagt taaaacttat tgtcgtttga 180
 tttttctctg aggttccgtn ttcaattacg agcgtctcga tatccctccg gacgcaattg 240
 gacatccgag tgaaaagtta ttgtcaatta cgagcatctc gatataattat gggact 296

<210> 2824
 <211> 452
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2824

agctntgaga taattcaaac aacaataata tttgactcga atgtccaatt gtgtcccgta 60
 ggatatcgag aactcgttaa ttgaaaatgg aagctctgag aaaaatcaag cgacaataac 120
 ttttaactcc gatgtccgat tgagtcctgt aatataatga gacgctcgta attgaaaact 180
 aaagctctga gcaaattcaa acaacaatta attttgactc gaatgtccga ttgtgtcccg 240
 taggatatcg agacgctcat aattgaaaac gaaagctatg agaaaattct tacgacaata 300
 acgtttaact ggggtgtccg attgacgtct gtcataatc gagacgtca taattgaaca 360
 ctaaagctct gagcatattc aaacgacaat aacttttgac tcggatgttc cactgtgtcc 420
 tgtatgatat cgagacgctc gtagatcaaa ac 452

<210> 2825
 <211> 376
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2825

ntganaacca acaggctccc tctaattcat cgagtaactc atcaatgggt ggaattggga 60
 atctgtcctt gacggtaatg tcgtttaaag ctctgtagtc aacgtaaaaa tgccatgatc 120

catcacgttt tttgaccaat aatacagggg atgagaatgg gctaattgctt ggaattatgc 180
 cactccggag catggtttct acctaagttt cgattttctta tttttgaaaa taaggatatc 240
 gatagggtca aacattgatg ggttcagagt tgggtatcaa gtgtatggcg ggattgggtg 300
 tgtgggatgg tgggaggggc attgggtgtgt ggaatacggc cacgaattga gtgagtaaac 360
 ttggtatttc tgggta 376

<210> 2826
 <211> 453
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2826

agctngcctt gctccttgat atatatgagg gactcatgga cattatgaat gacaaattcc 60
 ttgggataaa ggtagtgtcg ccatgttttc aaagcccga ctaacgcata caactcttta 120
 tcataagtag aatagttaag ggtaggacca cttaactttt cactaaaata agcaatagga 180
 tgaccttctg gcatcaacac agnceccaatc ccaacatttg aagcatcaca ctcaatctca 240
 gaagattctt gaatagttgg caacacaagt atggggggcat taattagctt ttgcttaaga 300
 acatagaaag ctgtttcttg tgtctctccc catgtgaaac cagcattatt cttgagcact 360
 tcattgagag gtgctgcaa tgtgctaaaa ttcttcacaa atcgtctata taaacttgct 420
 aacccatgaa aactcctcac ctccggcact gac 453

<210> 2827
 <211> 432
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2827

agctttcggt ntcaattacg agcgactcga tattctacgg gactcaatcg gacatccgag 60
 tgaaaagtta ttgctgttg aatttactca gagcttccgt tttaaattac gagcgtctcg 120
 atatcctacg ggacacaatc ggacattcga gtcaaaagtt attgtcggtt gaatttgctt 180
 agagcttttag ttttcatttt cgagcgtctt gatataattac agggctcgat cagacattcg 240
 agttaaaagt tattgtcggt agatttttct cagagcttct gttttgaatt acgagcgtct 300

cgatataccta cgggacacaa tcggacatcc gagtcaaaag ttattgtcgt ttgaatntgc 360
 ttagagcttc agttttcaat tacgagcgtc tcgatatatt acgagactca atcggacatc 420
 cgagttaaaa gt 432

<210> 2828
 <211> 440
 <212> DNA
 <213> Glycine max

<400> 2828

gagcttgtgc ctcttctcgt gtggaatatg aatgttgcac atttatccaa agacccttaa 60
 gtgctttgct gatggcttct tcccgttcca agcttcaaag ggagtgttgt attttacaga 120
 cttaactgga catacagatg agtatgtaaa cagcatagta caccgcttca gccagaaaag 180
 tgctaaggag tacctgtttc ttgagcatcg atctaaccat ctccataact gagcgaagct 240
 ttgtatcgga cactccatgt tgttgaggag aagatgagac tgtcaaattg atcttaatgc 300
 acttcacctt cacaaaatct gtcaaactca cgagaggagt actctctgcc gcgatcactc 360
 attagtactt ggagtccgtt tgcacttttg agtacaagaa gggcctcgaa cttattgaat 420
 actccaaaga cttttgattt 440

<210> 2829
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2829

agctngatct tttagtnttt atctttaatc tctaatacct gaacgaactc ttctagtttg 60
 taattcgaac ttttaattatc ttttaattcg ttctaaga tagatcatct tatctgctgc 120
 taactgcaca ataatccgtt aaagatataa cagatttatg tgtccagtat tttcgggccca 180
 gatgtcctgg acatcgtatc cgacatcgtg gatcctgcag cttcacttct tttatcttgc 240
 cttgtgcatt gtgcagcaac tccagtattt tcgggcaaga tgtcctggac attgtatccg 300
 acatcgtgga tcctgcattg tgcattgtac agcaactcca gtgttntcgg gcaggatgtc 360
 ctggacattg tatccgacat cgtgaatcct gcagcttcaa ttcttcattt gacatttcat 420

<210> 2830
 <211> 427
 <212> DNA
 <213> Glycine max

<400> 2830

agcttgtcca tccacgatgt ctccaataga aagggttact cctaaccatt tgctcacacg 60
 aacatgaaat tggacatcac cataatcaaa tccatgtgtc ccacactcaa agataagctt 120
 acaaaataat tataattaaa acaattttaag aaacatcaat taactatgac ataaactcta 180
 tcatcttttag atcatgggtat ttgaaagtaa ataaaaccaa taacatccag ctacataag 240
 ccaaacatct catattcaac tatcatgaaa caattcaaga atcaacatca tgcatacaact 300
 atcaagcatt atcaacatga gttcatcaat catcatcaac atgaacacca aacatcaaca 360
 ccaacgacag actctactcc atggatattt acaccacatg atgaattaac caaagtacat 420
 cccttaa 427

<210> 2831
 <211> 479
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2831

tccttaagtc acctgcggca tgcaagcttc tcatagtagc cctccatgtc gttcccgaac 60
 actaatgcga gccccatccc gtgataatca cgcgcttctt tgggtccttc tgccgctgcg 120
 cggggacacc tttggcgcca ccgtggcgga cacgaagaac acgcgcttcg cagaggtggt 180
 gcgtcgcttg gcggcgcat tggtggggcc ctaaagaggg tccaaggag aaccgtggag 240
 ggtgatgac acgggaggac aggaggcgcg gtagagagag aatgttctcg cggtggcatt 300
 gttcgtcgga gtctcgatgg catcggcatt gttcgtcgga gtctcgatgg cgccgccacc 360
 tacacatgag gttctcgcgg tggtttgggg gttggagatg gggaggacan gangcgcggt 420
 aaaaagagaa tggaaggat tttgtaattn gtgatttttag agagagaaat aatctagct 479

<210> 2832
 <211> 431

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2832

gacacttgaa actaagctat aagcntttga tngattacta actccaagaa agatgcantt 60
ttctccctta tcatctagct ntgtcctcct ttgaattgga atgtgggcat aggcgacaca 120
cccaanaatt ctgaaatgac ctactactgg tctttgtcca ctccatgctt cctctggtgt 180
catattttga acagcaagtg tgagtctttt attcaaaata tgaacgctcc aatttacagc 240
ttcaggccag aaagttttgg aaacactact ccttgtcaaa aggcaacaca ccatgttcat 300
aattgtgcaa ctcttcctct cacaaacacc atttgttga ggtgtatagg cagctgtaag 360
tttctcttg attccatggg cctcacaaaa atttacaat tcatgtgagt tgtattctcc 420
accacgatct t 431

<210> 2833
<211> 454
<212> DNA
<213> Glycine max

<400> 2833

agcttatgtt tggtcgagta caaaattgct tccatttgtt ttcgttccag atcatttcta 60
ggacattgtg tgagactata tttgtctcct ttctaaattg gaacgattga tgttgagcac 120
ttttccatcc taaatatctc tagtacttta ttgatata ctttctgaga taagcctaac 180
aatccttgtg atctatttta gaatatttct atccctatca catagcttgc ctcacccata 240
tcctttattt ctatgttact agaaagaaac ttattagtct catgaagaag accaagatca 300
ttagttgcaa gcaatatatc atcaacatac aggattagaa agataacctt actcctactg 360
accttaagat atatacaccg atcaacagta tgttccttat atccaaagga aacaatggta 420
tcattaaact tcacatacca ttggcgggaa gctt 454

<210> 2834
<211> 378
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2834

tgtgcattca atatcctaag gaggggtgttc catatgttct caatactgga ctaatacatt 60
 tgcttcccaa gtttcatggt cttgcaggtg aagatcctca caagcatctt aaggagttcc 120
 atattgtttg atccaccttg aagcccccta atgtccaaga agatcatatc tttctaaagg 180
 cttttcctca ttctctggag ggagtggtgaa aagattggtt gtactacctt gctcccaggt 240
 ccatctgcag ctccgatgaa ctttaagagag tgttcttgga gaaattcttc cctgcattca 300
 ggaccactgc catcagataa gacatttcan gcacagggaa acttactgga gagagcttgt 360
 atgtgtactt ggaaagat 378

<210> 2835
 <211> 428
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2835

cttggttata ttntatttat actctttag aaggtataaa taaaaagtaa ccaatggctg 60
 ctgggttggt gcaggtatct gtttgtatat ctctntataa atggatttga ggtaactctt 120
 gtattttttt ttattagaaa ttaattctac ttgtcataca taattattta attaaataaa 180
 ttatttttat aatgtgaaca taacataatc ttatatcagn tgtatttatt ataaatataa 240
 tttctttgtt gataaaaaat gaaaactaga atttaatatc aagttatttt tgtttagcatt 300
 tgacttatag tgagttaggt tctccttttg tgatttaaga tggaattcaa taatagaaaa 360
 ggtgaagaaa ataaaataaa aacagaacta agttgaactc aatctcctca tgatagtctg 420
 ctctaact 428

<210> 2836
 <211> 451
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2836

agcttatcta tccagtcaag ttcagctccc tttctagaat attatgtgat aggttgagat 60
 gcacgagctt gtggcagcgc ctcaagtcct caggaatctc atcagagagc gtgttctgag 120
 agagatcaag atgtgtgagt tcagttagct gcgagaaatt cttaaataatc tcaccagtga 180

tgtcactatt agaaaggctt atgcccacca ccctcttcgt agcactgcat gaaattcctt 240
 tccattcaca aggattggag ctattggtgt tccaatatat gtaccctcct ctgtctgcaa 300
 gaattttgct ggccaggtag aatttcagct tcagcagaac ctctttgtct ttgtccaaag 360
 attcccctac aacagcttta cctgccccaa ccaaacacaa aagcaaaaaa naaaaaatcc 420
 tcggtaaaca caaagacaca agtttataac t 451

<210> 2837
 <211> 353
 <212> DNA
 <213> Glycine max

<400> 2837
 tccgttggtc aatttcgagg atctcgatat attatgtacc cgaatcgtag atccatgtga 60
 aaagttatga atatttgaat ttctcgagag ttgtcgttgt tcaattctga gagtctcgat 120
 atattatgtg cctgaatcgg acatccgagt gaaaagttat gaccattgga atttctcgag 180
 agcgtcagtt gttcaatttc gagcgtctca atatgttggt cgctgaatc ggacatccga 240
 gtgaaaagtt atgaccattt gaatttctca aagagcttcc attgttcaat ttcgagcgtc 300
 tctatatatt atatcaccga atccgacagc cgagttataa attatgacc att 353

<210> 2838
 <211> 452
 <212> DNA
 <213> Glycine max

<400> 2838
 agctcgaaat tgaataatgg aagctctcga gaaatacaaa tggtcataac ttttactcgt 60
 gattgccgat tcagggtgcat aacatatcga gacgctcaaa attgaacaac agaagctctc 120
 gagaaattca aatgggtcata agttttcaca tggatatccg attctgtgtt ataatatatc 180
 gagacggtcg aaattgaaca acgactcgag aaattcaaat ggtcataact tttactccg 240
 atgttcgatt caggcgcata acatatcgag aactcggaa ttgaacaatg gaagctctcg 300
 agaaatacaa atgggtcataa cttttcactc ggatggccga ttcaggcgca tcacatatcg 360
 agacgtcaa aattgaacaa ccggagctct cgagaaattc aaatgggtcat aacttttaac 420
 tcagatgtcc gactcgggga tgaaacatat cg 452

<210> 2839
 <211> 465
 <212> DNA
 <213> Glycine max

<400> 2839

agcttgcaaa tctgttttaa atcctgttgg accttgtggc ctcaataatc ttacgaggga 60
 taggcttaga atacagaaga agcaacaaca atcaatttaa caatgttctt taaacatgca 120
 agacacaatt gattgcaaca aaataaataa gataaggga gagaaaatgc aaacacaatt 180
 ttatactggc tcggccactt cccgtgccta catccagtac tcaagcaacc cacttgagat 240
 ttccactatc tttgtaaaat cctttacgaa gtctgaacca cacagggaca acccatccct 300
 tgtgttcaga tgctttacaa caagagactc acagtctctt aaccaatctc attgaataag 360
 aagaatggaa gaagaattct ctcttcaaga gaagaatatt acaatgaaga tcatgtaaga 420
 atccttatag attttgcaag tgtttgggtca aggatttctt ttgag 465

<210> 2840
 <211> 456
 <212> DNA
 <213> Glycine max

<400> 2840

agcttggagt ttccaagtgc caattcgtct tcttctttag tccagtcttc ttctggcttc 60
 aattcttcag tgggctttcc ttctgtgtcc agcatcttgg gatgttccca gcctttgatg 120
 acagctttcc aggttctgct atccagtgat ttgaggaagg ccaccattct tgctttccaa 180
 tattcatagc tgcttccatc gagaattggc ggtatgttca ctggtccgcc ttctttctcc 240
 atgttcatca gaatttatct ccctagatct cactctgtga tttcgagtgt tggctctgat 300
 accaattgaa attctgatac caggggacag atgtcgtaca ggatgtcacg acatcacgct 360
 tcagaacatg cagattatat gtgtccgtat gaacagatta aacaagtaaa taacacaaga 420
 gaattgttta ccagttcgg tgctacctca cctaca 456

<210> 2841
 <211> 379
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 2841

nggtggtggt ctcttcatga gcagaatctg gaggctgtag aaggaagcca aaaacagctg 60
aatgctgttg tgagtcaatt ccacactgta tttcaggatc acatcatact tcttccccag 120
aggtctcaag tgcatacagat taagttgttc tcagatcaga acccagtcca tgtaaggcca 180
tatagatatc cacatcacca aaaagaagag attgaaagac aagtacagga gttactggag 240
gcaggggtaa ttcgtcctag catgagtgtt ttttcaagcc cagttatctt ggtaagaag 300
aaggatggga gttggaggat gtgtgtggac tatagagctc ttaacaaggc caccatacca 360
gataagtacc ctataccta 379

<210> 2842
<211> 453
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2842

tggcctccat aagagaantt tgtcttctcc gcatacatana agtttgattc tctagttaca 60
tgctctacct ccttaatttg tcaagtttta gcagtggcct caatgtactt gaagtgaata 120
ttaggatacct cactttacaa gacagaacaa aaaaattact ataattgaaa aacaaagtga 180
agcagaccaa ctagtgaact gaggtcatgt tcaactctaca ataagaaaga attggagctc 240
aagtatgcac ccaagaaaag gtatagtctt tcataagatt tgaattgctc aaagagtttg 300
atgcatgcat caacaccac ttgctcaaaa tattccttag tggtagtaa atcatgtact 360
agtaagattc ccttatagat gaattgtgaa attcaaaaaa ttaaatagaa catgaatctt 420
atggcaacat tatccaaaaa cagtacctgc aca 453

<210> 2843
<211> 444
<212> DNA
<213> Glycine max

<400> 2843

tgtagacaaa ctatactaga agaaaaaaaa agtttaatatag ccatgttgaa gtgtaaacct 60
acacactttt tttttttagt tgccacataa tattaaatct taattatctc ttcaacaaaa 120

aggttaattag aattaaacac atgctaagca taaaataaga aaaatatgtt taagaaatca 180
 ctatttgaaa agagttggtg tgtttaagaa tttataacaa ttttttctca taaattactg 240
 actatttgaa aatcactaaa atgttgcgat atttctattt tgattgaaaa gatttagctaa 300
 atgaagtaaa gtagagatta tttgaccatg aaagcgaaaa ataattctta tattactttt 360
 ttttttataa aaatacattt atcattcatt attcctttta atttatttaa acaataaaaa 420
 atatatttca tccacacaca attc 444

<210> 2844
 <211> 343
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2844

agctnggatn tccttntagt agggaatcta tctttcctaa gatggagcca aaccagtc 60
 ccctcattaa gaactagcta tnttcttctt ctattgcctt tagttgaata cacctttggt 120
 tggttctcta tttggttctt aaccctctca tgcaacttct ttacaaactc tgacctagat 180
 tccccttctt tatatataaa agaagtgtcc agtgggagag gaatgaggtc aaatgatggt 240
 atgggattga acccaaagac aacctcaaaa ggggactgct tgggtggttct atgaaccccc 300
 ctgtagtagg caaattctac atgaggaaga tactcatccc aag 343

<210> 2845
 <211> 417
 <212> DNA
 <213> Glycine max

<400> 2845
 ctttgtgatg ttgactatgt tggagacaaa gttgaaagga gaagcacaac tggaagatgt 60
 cacttcattg gtggaaaatt ggttgcattg atatgcaaga agcaagggtc aactacgttg 120
 tccattgttg aagcataaca catgctagct accagctggt gtgctcaact actttggatt 180
 aagtaccaac ttgaggacta caacatctat gaaagtaaaa ttcccathtt ttgttataac 240
 aaagtgtgca gtagtctttc aaagaatcca acattgcatt caagggcaaa aacatataga 300
 aagtaagcat ctttttataa gagaccatgt tcagaatggg acaatggatc tacagattgt 360

acccattgat gatctacttg ctaatatattt cacaaaaccc ctcgttgagg aaaaact 417

<210> 2846
<211> 301
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2846

ttcgtcttct tcttttagtcc agtcttcttc tggcttcaat tcttcagtgg gctntccttc 60
tgtgtccagc atcttgggat gttcccagcc tttgatgaca gctttacagg ttctgctatc 120
cagtgatctg aggaaagcca ccattctggc tttccaatat tcatagttgc ttccatcaag 180
aatagggtgt ctgttcaactg gtcgccttc tttcttcagt ttcataaaaa tataatctccc 240
tagatctcac tcagtgattt cgagtgcctg ctctgatacc aatgaattct gatactggga 300
c 301

<210> 2847
<211> 437
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2847

agcttgtaac tgtcagggaa aatgtcatct ctattatctt gtaagcatag tgattagaat 60
tttatgattc ctgattcgaa tcttacattc cgataaaatt cagctactta ttgattcata 120
ttattaatat tagacgaatc tcaatttttg tatcttacgg tacatgaatg aatctgcaca 180
atttcatatc atcaatacaa atcacatgat tcaatagttt gattttcttt tatttttctt 240
tcaccaattc tcatgaaaag aattgaaaag tcatttaagt gaaattgata aatgaaaagg 300
aattagagga atatatttnt aaaattgtcc tatntgatta tttcacaaca ttanttgtca 360
ttcatttatt cagtgcattg actgtatttg tctatttcag ctgcttcatt tttttctaaa 420
ataaaagctt cacaaat * 437

<210> 2848
<211> 410
<212> DNA
<213> Glycine max

<400> 2848

gtacatgcct catgacacct aagcacactt agtggagaat gttgtacttg atcttgaatt 60
agtgggctga accatggcta aaattcacta atcataatta gtgaaatddd ggctccacaa 120
atcaatttca aattcaagtg aaatttgaat ggaaatttaa atttccctcc agttttttgt 180
gacacttagg ctataaaaag aagtcatttg tgtgcatttt atcaactttg atcatttgag 240
aattacactt caaagttcag acctcatttg aggcacaaaa tttagtgttc cttctctccc 300
tctccctcca ctcatcttct cttttcttca agctcttctc catggcttcc tatgggtggtg 360
agcttcttct tgactcatct tcttcttgaa gtggcatctc caatcatctt 410

<210> 2849

<211> 433

<212> DNA

<213> Glycine max

<400> 2849

tagattgtaa gcaatggcaa gaaactatgg aatctgaaat tgaatcaatg aagatcaaca 60
aagtatggac tttagttgaa gcttcaaagg atataaaaac aattggttgg aaatggggtt 120
acaagaaaaa ggatattgga gcatattgga aggttgaaac ctacaaagtt tgtcttggtg 180
ccaagggata ttgtcaaagg aaggtataga ttatgatgaa acttttcaac ttttctcccg 240
cggcaatgct caaataaatt caaatcgtt tttctataat agcatactat gatcatgaaa 300
tatgaaatgg atgtggaaaa tggttttcct taacgatgaa ctaaaagaag atgtgtatat 360
gacacaacct aagggaatca catccttgtc tgatcataat aaaagctaca agtttcaatg 420
attcatttat gga 433

<210> 2850

<211> 380

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2850

gcagctgaat atgcaccact tgctttcatt cactgcttan atatccaaaa tacacctgcc 60
acttctgact tatacttgag aaagtaatcc aacacattct agtgaaatca tctataaaga 120
tgatgtaata tttacttttt ttaagcgaag tagtccttg aggttcggcc aaatctgcgt 180

gaatcaattg cagcttctct gttgctctcc acgttgattg tttgaagggg aatcttgctt 240
gcttgccata ttggcatgct tgacagcatg gtaatttaga atctaagtga ggtaagccat 300
gaaccaactc ctttcgtttc atgttcaaca cagttgcatg atgaaaatgg tctaactctt 360
tgtgccaagc ttctgtacta 380

<210> 2851
<211> 392
<212> DNA
<213> Glycine max

<400> 2851

tgtgcatcca atacctgat gaggatgtcc catatgttct taatactgga ctgattcatt 60
tgcttccaaa gtttcatggc cttgcagggt aagaccgcga caaacatttg aaagaatttc 120
acattgtctg ctccaccatg aaacccttag atgtccaaga ggatcacata tttctgaagg 180
cttttctca ttcattagag ggagtggcaa aggactggct gtattacctt gctccaaggt 240
ccatcacgag ctgggatgac cttagagag tattcttaga aaaagttttc cctgcttcca 300
ggaccacaac catcaggaag gatattctag gtattagaca actcagtgga gagagcctgt 360
atgagtactg ggagagatta agaaactatg tg 392

<210> 2852
<211> 458
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2852

gcttggtgaa gatcacagaa acttctttgc tggtatcaat agttgacaat atttgcttta 60
aagtactttc ggtacatgaa tctttgattt ctaactatgt tattcttttg ggatgagatt 120
ctctagaata gggatttttt gcttggttat tatttcactt tttcaaaaat aatgagttag 180
ttaggaatgt actaatgatg taaaatagct ctacactgtc attaaattta aattattgtc 240
tataaagtta acaaatttat tataaataat aatttttgat tggacaatgt aaaatgtctt 300
tattgtatca atgcatagtc attcttctca taaatgaaat tatgatgaga aactctagta 360
atcattcact caattatcgt gagaattatt aattctcact tcataaatat tctaagaatc 420

tcttttaggaa atatttntat tctattgtag ccatatgg

458

<210> 2853
<211> 409
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2853

agcttcttct tgactcatct tctccttgaa gtgatgtctc tgatcatctn tcttccttct 60
tcattccgct accattaaac ttcaagaagc aaaggactct attgattaag aagatccaag 120
tctacaagc tccacatgga gctacatcag ggctgaatg actattgttt gtgaacaaac 180
tccttcagaa ggctgagctt gataagctct tctatcttat ccttcagagc actgcattgt 240
tttgttgagt ggccatgctt gcaatgtgtc gcaacctacc cttttgcggg caagcgaggc 300
gaggctcatg ggtgcgtctt acacaggagg aaaatgcgcg gagtcgccac caacgtttat 360
tgaaaggaaa atgtagaaa aatccacagg aaacagtcac gaagaatac 409

<210> 2854
<211> 447
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2854

agcttataan anagtcaaag ttatataaat atttatctta tgtcataatc tgtgacgcat 60
atgacgcac cactgaatta aatcactttt aatagcattt tttctccac ttgctctgag 120
tatttacatt agagtacata agccttttaa tatatgaaac tctataatat tctcatatga 180
atgactaaaa caaaagaaaa tcaatctttt tactatttta ttcacaatct aaatgtaatc 240
acttactatg agtttaatcc ttaaataatat attcatatga ttattctaag atttaaacta 300
atatgattgg aaaactgcat gcatnttgaa tgaattatct taaaaattgg tagtttgaag 360
gaattaatgg tnttttagat taacaaaata atttaatcat ttacgctcct tgaaattcac 420
actggaaatg acatgcttat gtaatac 447

<210> 2855
<211> 115
<212> DNA

<213> Glycine max

<400> 2855

tgatggggcc tatgcacgat ggaagccttg gagggaagag tatgcctatg atgttagaga 60

tgatttcttc aaatttgctt ggggtctactt tattacaaga aaatccaaaa ccttt 115

<210> 2856

<211> 348

<212> DNA

<213> Glycine max

<400> 2856

agcttagtaa agctaggcac taacatatct ctttgctcgg atgtctgata gagtcccata 60

atctattgag acgctcgata ttgaattctg aacctcacag ctaatgtaaa cgacaataac 120

ctgttactcg gatgtctgat tgagtcccg aatatattga gacgatcgaa attgaattct 180

gaagctctga gctaattcaa acgacaataa cttttttact cagatgtcta attgtgtccc 240

gtaatatatc gagatgatcg aaatctaatt ctgaagctct gacctaatc aaatgacaat 300

aacttcttgc tcggatgtct gatagagtcc cataatctat tgagacgc 348

<210> 2857

<211> 390

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2857

agcttaagct ctttcaactg cacaaggctc ttaatatctg aatagtatcc ttatggaacc 60

ttcacctgac gaagacgctg agaaaaactt atcttctcct ttttggacaa agtatgacaa 120

gctaggggca agtaaatttt cttcccatca aaccttggat gcaactgtga tcgtatccct 180

atctcagcta gatcttgacg ggtattcaag ccatacctcg tcttgccttg aatgttaggg 240

agcatcccaa tcacactgtc acatacattn ttctcgacat gcataacatc aatacaatgt 300

ctaacgtcta gatcagacca atacggaaga tcaaagaana tggacctctt cttccatata 360

gaagtcttac ttttatcctt cttttgggtc 390

<210> 2858

<211> 414

<212> DNA
<213> Glycine max

<400> 2858

agcttgatgc acaatttcat tgaagagaca aatattacta tatgaatata acatgtatat 60
aaaatgttga gataaattat aaagactaag agaagaatta tgacaaaaaa aatgagatga 120
atagtattgg agttatgatt atgatcatgt cgagctttgc acaagttaac aatgtacct 180
ttaaatttgg gtgtgattcc aaatgttgag aaaaatgtct agattcaatt tccatttttc 240
catatcaagt gtggttctgc atgtgtatga aaaaatgtca taaaaagtcg aataagaatg 300
gtattcattc tcttaccact ttttaagggt gtgtaattat tattttataa tcgaattaat 360
tataatctta catgttctta tcattgactt atttcttaga tgctgatcat acat 414

<210> 2859
<211> 410
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2859

tcagaattca atntcgatcg tctcgatata ttacaggtct caatctgaca tctgaggaaa 60
aaagttattg tcgtttgaat ttgctgagag cttcaacatt caattttgag cgtctcgatg 120
tattacggga cttaatcaga catccgagtt aaaagttatt gttgtttgaa tttgctgaga 180
gcttcaacat tcaatttcga gcgtctcgat attttacggg actcaatcag acatccgagt 240
taaaagttat tgtcgtttga atttgctgag agcttcaaca ttcaatttcg agcgtctcga 300
tatattacgg gactcaatca gacatccgag taaaaagtta ttgtcgtttg aatttgctga 360
gagcttcaac attcaatttc gagcgtctcg atgtattacg ggactcaatc 410

<210> 2860
<211> 336
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2860

catcacatgt tttactatgt ggcgatcggg cgatggtgca caacaagttt tttcacatcc 60
acaatgcgcg cataaaccce ccacccctg ttgccacct ccaactgagc acacgtactc 120

ccacgtagcc catatcctcg tttctctcaa caccgggtcc cgtaatatat cgagacgctc 180
gaaattgaat tctgaagctc tgagctaatt caaacgacaa taactttttg ctcggatgctc 240
tgattgagtc ccgtaatcta ttgagacgct cgaaattgaa ttctgaacct tagagctaac 300
tcaaacgaca ataacttatt actcgaatgt ctgatt 336

<210> 2861
<211> 443
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 2861

tgccgccacg gagttntccg actatgctct tgtgtggtgt ttgttattat gcaagttgaa 60
gtggacgttt ccattgggaa atacaatgat aagggtacttt gtgatgttgt tcctatggag 120
gccagtcact tacttttggg gagaccatgg caatttgata aaagagccaa tcatgacggt 180
tacaccaaca agatctcttt cattactttt ggtgttgcat aaaaaatgta caatgtaggt 240
cggctaggtt tttttgtgcg agtcaaccg acattttgtt tcggccgaaa ctggcatggt 300
cccatttatt ttggccagga aaacattagc ccacctcggc aaaaaaatat ttgctatccg 360
acttcattgca tatttcattc acggaatgaa ctigaaactc attaaccgac atctggtcgg 420
aatagccccg actgaacatt ccc 443

<210> 2862
<211> 372
<212> DNA
<213> Glycine max
<400> 2862

taacactaag aaagcagaag ccatgattcc agcaactgcc tctggactca tttgtggaga 60
aggcctgtgg gctcttcccg cttccattct tgctcttgcc aaagttaacc cgcctatctg 120
catgaatttt cttgcttcct agaacttgat caactacatc aaaccaatga atgccataat 180
tagttagtta attaatacta ctatatatgt tagcaggtag acttcataca taacccaaat 240
gctataaata ttccaagtgt ctggccattg ggcttaagaa cattgtatta ttgcttacta 300
caactctgta ggaaaagtca gttcctgtta attgatctct cggaaggga tttcttcttc 360

<210> 2863
 <211> 416
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 2863

gcttaaggac gacgaatntc cagtagcaaa gtacatccta gcacctcccc aaacgtactc 60
 atcccagtaa ctggtagaat tgtaaaatat tgaagcctct gaactcccag cactgtacct 120
 gcctctctga tccctggaaa acttgaacag cgtggtcgca ccatgcacca gtttcttgga 180
 ataggccttg ttgtccttga aaacaatgga agcagaagcc aaggcagcag ccatctcagc 240
 cgcgagatcg gaacaactgt ggcattcagt cacagggcgg tcatagtcca tgtccttcgg 300
 acgcattccag caatagtgat cattcngact gtcaccacca gaagtatctc caagcccaac 360
 ctgtcaaaca agcccaaaaa acataattga gaaacatcta cccacagtca caccac 416

<210> 2864
 <211> 407
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 2864

tanacattca acttcgagca tctcgatata ttacgagtct cattcagaca tccgagtaaa 60
 aagttattgt cgtttgaatt ggctcagagc ttcaacattc aatttcgagc gtctcgatat 120
 attacgggac tcaatcagac atccgactaa aaagttgttg tcgtttgaat tcaactcagag 180
 gttcaacatt caatttcgag cgtctcgata tatgacggga ctcaatcaga catccgagta 240
 aaaagttatt gccgtttgaa tttgctcaga gcatcaacat tgaatttcga gcgtctcgat 300
 atgtgacggg actgaatcag acatccgagt aaaaagttat tgtcgtttga atttgctcag 360
 agcatcaaca ttcaatttcg agcgtctcga tatattacgg gactcaa 407

<210> 2865
 <211> 350
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 2865

agctntgagc aaattcaaac gacaataatc ctttactcgg atgtctgatt gagtccctgtn 60
atztatcgac acgctcgaaa tagaatgttg aagctctgag caaattcaaa cgacaataac 120
tttttactcg gatgtctgat attgtcccggt aatataacga gacgctcgaa attgaatgct 180
gaagctctga gcaaattcaa acgacaataa cattntactc ggatgtctga ttgagtcccg 240
tcatatatcg acatgctcga aattgaatgt tgaagctctg agcaaattca aacgacaata 300
actntttact cggatgtctg attgagtccc gtcacatata gagacgctcg 350

<210> 2866
<211> 405
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2866

tgtaggggaat tcaaacgaca ataactctct actcggatgt cctattgaat cgggtaatat 60
atcgagacgc tcaaaattga gactagaagc tctgagcaaa tttaaattgac aataactcta 120
tacacggatg tccggttgag tcccgttaata tatcgagacg ctcgaaattg aagacggaaa 180
ctcttagaaa attcacacga cgataacttt ntactcggat gctcgacaga gtgtcgtaat 240
atatcgaggg atgctccaaa ttgaaaacgg acgctcgtat catattcaag cgacaataac 300
tatgtactcg gatatctgat agagtcccggt aatatgtcga gacgctcaaa tattagatgc 360
ttagctctga caaaattgga ttgacaataa ctttatacac ggatg 405

<210> 2867
<211> 411
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2867

ggctgcagct ttagtctcaa tttgagcgtc tcgatataatt actcgattca atcggacatc 60
cgagtaaaaa gttattgtcg tttgaattcc ctacgagctt cccttnntca attggagcgt 120
cttgatctat tacaggactc aaccggacat ccgtgtaaaa gttattgtca attcaatttt 180
ctcagagctt cggatctaaa ttntgagcgt ctcgatatat tacgggactc tatcagacat 240

ccgagtaaaa agttaatgtc gttggaattt gatacgagct tccgtattca atttgagca 300
tctctcgata aattacgaca ctctgtcggg catccaagta aagacttagt ggccgttgaa 360
ttttctaaga gtttgcgttt caattgggag cgtctcgata tattacggga c 411

<210> 2868
<211> 369
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2868

tgaatcggac ctcaagtgtga aaagttatga ccatttaaatt ntttgagagc ttccgttggt 60
caattccgag cctctcgaca tattatgCGT ccgaatcggg catccgtgtg aaaagttatg 120
accatttaaaa ttctcgcgaga gcttccgatg ttttatttcg agcgtatcga tatattataa 180
gcctgaatcg gacatccgtg tgtcactata tgttataagc atttgaattt ctcatgagct 240
tgCGTtggtc aattttgagc gtctcgatat gtgatttgcc tgaataggac atccgtgtga 300
aaagttatga ccatttgaat ctctccagag ctttCGTtgt ttcatttcga gcatcttgac 360
atattatgc 369

<210> 2869
<211> 338
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2869

atggaatcaa gcattatgga tgcattgntg accttattgg gcagagcang gagattaaaa 60
gaggcttatg acttgatagt gagaatggca atgaaaccta acgacacagt ttttggggga 120
atgcttggag catgccggat tcattctgat atgaagatgg cagaacaagt aatgaagttg 180
atctgtgaag acnctgttac tgggtgctagt tctcacaatg tgcttttgtc aaatatctat 240
gcagcttctg aaaaatggga gaaagcttga aggatgaaga gcatagatgg agggctcag 300
aggatacccg gatgtagttc aataatcttc agtgactt 338

<210> 2870
<211> 477

<212> DNA
 <213> Glycine max
 <400> 2870

tatcaggcga tactatataa tactgctgct tctagcgtac ccgctattgg tgctcataca 60
 ataccaaact ttataccg ttattactag ctatattgaa ttcttttagat cctgaatgta 120
 caaccttcaa attgttgctc gttcccgtat atgttatttg caaaaaataa aattaatctg 180
 aaacaattct agctgaattg ctatcgatat tattactcat accataacga ataacagcta 240
 aacaagtaat ttaaaatgta actgtcaa atgtgtggtat ctttttaatt acaatcttac 300
 ttcaatatct aattttgtta atctacttat gacgatcttt aaatataaat atgaatttaa 360
 aggtgatcta ctgataatat aaagtacttg ctcacacaa attatgatac ctatcaattt 420
 aaatcttaac ttaattctat aagtattaat taacatataa tacgacaaat ttttaac 477

<210> 2871
 <211> 370
 <212> DNA
 <213> Glycine max

<400> 2871

taaagtcttc ctctattata acatgggtctt cagggagaat ttcgtgctgg acccccagct 60
 aacaaaacca acaagaaccc atcaaaagaa gccttcatca cctcagtaat tacatgcggt 120
 atgactctat catgcaccgt agacaatata atcttcaagc attgggtaag ctccctcaaga 180
 aaaggctcaa ttctcgtgga tgaaacttca ccaacatata ggccatccca aagaacataa 240
 cgcagatcct ggaaaatcac tttgtatgcc atggcctcgg agagttgacg gataccttcc 300
 acagatgcag ctttagaaag cttgaacttc aacccttct ctataccatc ctcttttggt 360
 gatttagaat 370

<210> 2872
 <211> 437
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2872

ccgcagagtg gatattagn catgacattc tttttttatg ggaaaaaaaa ttatgtgacc 60

atacttagtc atgacatcat catagctgca ctacactgcg agtacatatg tattttataa 120
 ttctaagaga ttcacaagca tctatgataa tcacaatcat aagcatgatg taggttaagt 180
 ttgataaat cttctcagtt agtntntaat tntttattaa ttgacaaaat tattttctcag 240
 tctgataaat aaattcttta atagatttta tcattgttta aaatgttact tacaaaattaa 300
 ttcttttaga atactgacta tntaagttcg gatctttnta tatgtttttt tatcttcaat 360
 atatctattc aagttttag tagttttctc taaataaatc aaccatgatt ttatcgaatc 420
 tttcagatat ttaatag 437

<210> 2873
 <211> 360
 <212> DNA
 <213> Glycine max

<400> 2873
 tggatttcct ttgctccgga gacctctcct ctctcatgtt tacccaaaac caatctttgg 60
 gttggaaaac aacctttttg cgccccctgt ttgcatgttt agcataactc tcattcctct 120
 tttcaatttg ggcctagact ctttcatgga gctttttcac atagtaactt ttggcttgct 180
 cttccttatg ctttaaaaact gaaatattat gccttggcaa catatcacga ggagttagtg 240
 gattgaaacc ataaacaagc tcttaaggag aacaagtagt ggtgctatgc tcactcctat 300
 tataagcaca ttcaatgtga ggtagcgaa ctctccatt ctttaagattc tttttcaaaa 360

<210> 2874
 <211> 378
 <212> DNA
 <213> Glycine max

<400> 2874
 tgtgacggac tataccaagc tctatgaacc agggacggtg ttatatctat atataggctt 60
 gctaagggtg gagagaggaa gactagagat ttggatcaag tgaagtgtgt taaggatgaa 120
 gaaggcaaag tcttagtgca tgaaaaagat atcaaggaaa ggtggaaggc gtatttccac 180
 aacttattta atgatggata tggatatgac tctagcagtc tagacacaag agaaggaggc 240
 cggaactata agtactatcg tgggattcag aaacaggaag taaaggaagc gttgaaaaga 300
 atgagtaatg gtaaggcggt gggggccagac aacataccta ttgaagtgtg gaaaactctt 360

ggagatagag gtcttgag

378

<210> 2875
<211> 327
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2875

gatatattat gtccccgtat ctgacatccg tgtcanaagt tatgaccatt caaatatgtc 60
gagagtttcc gttgtgcaat ttcgaggggc tcgatatatt atgccccata ttctaacatc 120
cgagtgaat gttatgacca tttgaaattc tagagagctt ccgttggtca atatcgagcg 180
tctcgatata ttatgtacca cattccgaca tccgtgtgaa aagggatcac cattcgaatt 240
tctcgagagc ttccgttggt caattttgag agtctagatg agttatattc gccaatcgga 300
catccgtgtg aaaagttatt accattc 327

<210> 2876
<211> 428
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2876

ntaatgtgtt ctcccttgta gaactactaa ctgcagtaac agttacaacc caactattcg 60
atagtataa caatagaatc aatgtcttca cctcatcctt aaatttaatc tgcactgact 120
ctaactggac aagaatagta ttaaattcat taatatgac agttatagag ataccttctc 180
ccatcttgag gttgaacaac cgacgcatca agtatacttt gttggctgct gaaggcttct 240
cgtacatatc tgataacgcc ttcattaagc ctgcagtagt cttctcattt acgatgttga 300
atgtgacgtt cttggctaata gtcaatctga tcacgcaaata agcctatcga tctagcaagt 360
ttcattcttc ttgcttcatg tcgtctggct tatcccctaa taacggttga tacaacttct 420
tctaatat 428

<210> 2877
<211> 275
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2877

agctatcgag aaattcntaa tggtcataac tttaacattg aggtccgatt caggcgcata 60
atatatcgag acgctcgaac ataaacaacg aaagctctcg agaaattcaa atggtcataa 120
cttttcactc ggatgtccga ttcacgcgca taatatatcg ggacgctcga aattgaccaa 180
cataagctct cgagatattc aaatgggtcat aacttttcac atggatgaca gattccagtc 240
catgaatgat cgagacgctc gaaattgaac aacga 275

<210> 2878
<211> 413
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2878

actctgtctg ttacaataag tatgtggtca agaaacacca cttgagccat gaaaccccgt 60
tccagtggag acaataattg aggttccaag ggtgttagac atcatggttg catggtaggc 120
aaacatctca cacatgtggt tcttcaacac ttgaccaatg ttaggtggca ttttaccacc 180
aagtatantg gcttctgtcc gcaatgctac tgtgtgcatt acttgcacag cttttagtgg 240
gaacttttca tgagctcggt ctccacacaa cattattcca tcataacctt ctcaaacagc 300
aattgctata tttgatacct ctgttctggt tggagttggg tgaacaatca tgctgtctat 360
catatttgtt gtcacaataa cagacttttc catgctacaa cacaagttga tta 413

<210> 2879
<211> 357
<212> DNA
<213> Glycine max

<400> 2879

gacaatggta gtgcaatctt gttgtagtcc tggatgaatc ccctatagaa acttgcattg 60
ccaagtaaag aatgcacttc ctgcacagaa gcagggtgag gcgaagaagc cataacatca 120
atcttggcct tattgacctc aatacctcta ctagagacca aattccgtaa gactattcct 180
tcatgtacca taaaatggca tttctcaaag ttaagaacaa agttattctc aatgcatcgg 240
tcaagaactc tagagaagct atccaaacat acataaaaaa aggaaccata aatagtgaag 300

tcattccataa acacctccat gcaactctcc aataaaatag aaaagatact taccatg 357

<210> 2880
<211> 462
<212> DNA
<213> Glycine max.

<223> unsure at all n locations
<400> 2880

agcttaccat gagtattaaa aaacttcaaa actgcctaata actaacctta tcatgttata 60
tcaaatagtc acgacaacac tataatgtgt agagaggcac aatgtcctaa cataaatcaa 120
tatgaccttc tatcactata aaataaatgc tcgggtcattt atattttaatt aaataaataa 180
agagataatc atttcataac atacagtata ctacaacact tccaaaatgc ttagcaaagc 240
anaatgctct acataaatca gtatagtatt ctattaacac aaaatatata ttctttttatt 300
tatattttaa tattntaatc ttacaaagat catttaacaa tagcacacag tgtacaccag 360
ttttcgatct ggttgctact ggtctgattt ggttgagatg gtatatntca gctcaattca 420
tctaaataac agcagaaagt atgctatcag acaatgaaaa ta 462

<210> 2881
<211> 461
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2881

agctngctnt aagactgtat attgatttct ttagtatgca caccatgtgt tcatttcctt 60
caactgagaa cccattgggt tgggtccatac aaacattctc ctctaaatct ccattcagaa 120
aggcggtttt cacatctatt tgatgtagct ccaagtcata atggggtact attgtcatga 180
taatcctgaa agaatccttt cgtgagacca agaaaatgct tctttataat caatgtcatc 240
tttctgagta aattccttag caacaagtct agccttgtaa cgttcaaggt tgccatgaga 300
gtcacgttta gtcttgaaga cccacttaca accaactctc ttacaacccc ttgttaattc 360
tacaaggtcc caaacaccat tantgtccct gaaatctatc tcttctttca tggcagttaa 420
ccacttctca gaattatcac aacttatagc ttgtgaaaat g 461

<210> 2882

<211> 382
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 2882

 agctngatga tataagtgag aagtgcgtgt atgtgggttca cgactcaaga tccacggggt 60
 actagctcta tcttccttat aggagagggga tcgtcataag tcgcgacgtc tacttcgacg 120
 aagaagattg ttgggattgg actgctcgcg aagactagta tgactatctt ccttattttg 180
 aagaagatgc tgatatcgta caactcatca tggaggaaca tattgcacca cctgcctcac 240
 cgacacctac gctggatgaa acttggtcat gtgagaggac tccgcgacta aggagcattg 300
 aagagattct tgagggaacc cataacctaa acgacattaa cctcttttgt ctttcctgtg 360
 gttgtgagcc tctaattctt ca 382

<210> 2883
 <211> 452
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 2883

 aagttcttcc tcaacactgt cctaagcaaa gttcccaaag tcctattaac aacttccggt 60
 tgcccatcgg tttgtgggtg acaagtgggt gaaaataaca atttagtgcc caacttgctc 120
 cacaaagtcc tncaaaaatg gcttatgaac ttagagtccc tatcactaac aatgctcctt 180
 ggcaaaccat ggagtctcac aatctccttg aaaaacaaat caaccacatg ggaagcatca 240
 tcaactnntt tacatggaat aaaatgagcc attntagaaa acctatcaac aaccacaaaa 300
 atggaatctc taccattgct tggttttggc agccccaaaa caaatccat ggataaatca 360
 atccaaggat actccgggaa tggcaatgga gtatacaatc catgaggctn taccttagac 420
 tntgcctct tacatacaat gcaatgntca ca 452

<210> 2884
 <211> 411
 <212> DNA
 <213> Glycine max

 <400> 2884

agcttctaga ccagcaattc ttgtgcctcc gtagtataaa tgagttgcat caacatcagg 60
aaagatgccc tctccaaaga tatttttgca aagggtccata tggatatctgc aatgcatgag 120
aaaagaatca acaaccgcac atattaaaga atagagtcct aatgaaatat taaataagag 180
gaaagaatcc tgtcaataga ggagtatata aagtgaacag tgaggatgac gaacttgctt 240
tgcacatcaatt tctgaggagc gtatactatc atttgatgga gccacctgaa agaatgcaac 300
ttcagtgcaa acttgaaacc accataatcg agtagaactg tcttcatcga tagcagattt 360
cttcaagtac tcttggtcat aagtctgcac attaacaccc aaggttccaa t 411

<210> 2885
<211> 476
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 2885

ctgcttaatt gctccaggtt gctgcatgga agggcaaagg tctgtatggt ggtcagtaga 60
ggagcacaca ccacaaacc ttgcgacagg tacagatttc tgattcaagg ccagctgggt 120
taccaagtta accaatgcat ccagtttgcc ttcaagcttc ttagtttcaa atgatgcaga 180
tggttttgta gctacctcat gcactcctct aatgactatg gcatcatttc tggcgctaaa 240
ctgctgagag ttggaggcca tcttctcaat taaatttctg gcttcagcag gagtcatgtc 300
tccaagggtt ccaccactgg cagcatctat catacttctc tccatattac tgagtccttc 360
ataaaaatat tggagaagaa gctattctga aatctgatgg tgagggcaat tggcacatag 420
tttcttatat cgcttccagt actcatacan gctctcttca ctaagctgtc taatac 476

<210> 2886
<211> 390
<212> DNA
<213> Glycine max
<400> 2886

tgtagggtta aagtgtcatg aatgtcacgt gtcacatgcaa caattgttag ccgtggctat 60
acgagacatc ttgccaaaca aagtcaggtt agccataact cgcttgtgct ttttctttca 120
tgccatatgt agcaaagtca ttaatcctgt caaatttgat gagatggaaa atgaggccgc 180
aattatattg tgctcagttgg agatgtattt tccccctgct ttctttgaca tcatgattca 240

cttgattgtg catctggtca gagaaatcaa atgttgtggt cctgtttatt tgcggtggat 300
 gtacccgggt gagcgataca tgaagatctt caaagggat acaaagaatc tatatcgccc 360
 aaaagcatct attattgaga gggacattgc 390

<210> 2887
 <211> 452
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2887

agctntattc aagacaaaga aattaaagat attctagatg gatgatcaag acaagtctct 60
 agtcttagaa atggtatatt aaataggagg gaattccaat tgaagtagca aaaggtttgg 120
 ccaagaaatt taagttaaaa agtcttttac aagaaattta ctctctggta atcgattacc 180
 agaggatgta atcgattacc aatggccaaa actgatttac aatagctatt aaaatttgaa 240
 ttcaaaattt gactgtgta atcgattaca catatgtggt aatcgattac cagcaatttc 300
 tgaacatttt aattcaaatt ttatagtttg taatcgatta cacatatact gtaatcgatt 360
 accagagcag attttcagaa tatattctca acagtcacat ctttttgtgt ggttcttgaa 420
 tggctatcac agggcctata tatatgtgac tt 452

<210> 2888
 <211> 410
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2888

tcttagttnt agatgatgca cgatgagttg tagccacctc atgtactcct ctaatgacta 60
 tagcatcatt tctggcgcta aactgctggg agttggaagc catcttctca attaaattta 120
 tggcttcagc aggagtcatg tctccaaggg ctccaccact ggcagcatct atcatacttc 180
 tctccatatt actgagtcct tcataaaaaat attggagaag aagctgctcc gaaatctgat 240
 ggtgagggca actggcacat agtttttaaa tatctccac tattcgatg ggctctctcc 300
 actaagttgt ctaatacttg agatatactt cctgatgcgt gtggctcctgg aagcacggaa 360
 aattntttct aagaatactc tcttaaggtc atcccagctc gtgatggacc 410

<210> 2889
 <211> 388
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2889

acacaccatt cttggaagaaag tcctattaat ccatgattgc gcatgttatc tttgatttga 60
 taggaaatga tttgcaaagt caagtcatga catatctatg gttcagaatt aggatgaaac 120
 atttgccctgt gtgagattta tacactttga gcgatttccc tctatttcaa ctggacccaa 180
 tgtttcttct aagcgctcat ttagaaacga aatgctaata tcctaaatct catttgtggt 240
 tatgagaaaa ttctatcagc atgctttcct tcccaataga cacattgttt tcttcaaaaa 300
 tacatgttgt ntgatcagtt gaaagttggt tcttgctagc gtgttgcat tagtgaaaaa 360
 caccgagata cttagtctcg cctttcat 388

<210> 2890
 <211> 493
 <212> DNA
 <213> Glycine max

<400> 2890

atgctgtgtaa gtgaacaaat ataacacatc caataacatg aggtggtaaa taaaccatgg 60
 aaggaaggat acaatgatca aacaacacat ctagaggcct tctcaagtta agcacctcta 120
 gaaaggggttc gattaatcaa ataaactgta gagctcacag cctcacccca taaatgagat 180
 gggacattac catctatcaa aagtaatctt gtcacctcta atatatgtct atctttcctt 240
 ttagccactt cattttgttg tgggtgaataa gggcatgtag ttcgatgcaa gataccatta 300
 aagttcatga actctattaa ttcagtcctta aaatatatcc ctcaattgtc taatctaata 360
 accttaatat atgtgttaaa ttgtgagcta tcatctgatg aaaggaacac acaatatcac 420
 acacatcact tttatgttta agcagataca cccagggttac ccgagtacaa tcatcaacaa 480
 aactgataaa cca 493

<210> 2891
 <211> 448
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2891

agctngtatt tccatgtcac gatattacca gagcccnctt ccatccaaga tgatcctact 60
ccttctcccc acattcaaac tatccttgac cgttaccacc ctttgtttca aacacccaac 120
acccttcctc cgcaacgtga gacagaccac cgtatccatc ttctaccaca agccacacct 180
gtgaatgtcc gcccctaccg gtacccccat ttccagaagc aggaaattga gaaacaagtt 240
gaaattatgc tacaaaaggg ccttatacaa cctagtaata gccccttttc atcgccggtc 300
ttgcccgtca agaaacaaga tggatcatgg agattctgcg tggattatag ggcgctcaat 360
gctctcacca ttaaagacag gttcccgata cctaccgttg acgaaatgtt ggacgaaata 420
nggggtgctc attacttctc gaagctcg 448

<210> 2892

<211> 445

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2892

ntccncacca cctttcttct agatattggt ttagatagcg gtttggtgtc acgaggaggc 60
atagacaaat cactactttc ggattcaggt tgatcaatct taacaggaga atggtctcgt 120
tgtcgctgct ctctgaagac catcaagagc ttctgagcct tctctcttcc tctcgaggtc 180
ccattcactg atattgacac caatgcaggt ataaccctt cttgcaggac catctgacaa 240
cattcctcac tctgtttaca caaaattagg agacaagaag cagcttggtc ctgctctatg 300
ggctcaccgg tatctagtgt ggaagccaac gcacttataa gtccaggagc caacatcatt 360
ttctctcttc ctgcttgata aaccgccaac attatcaaaa cagctatgca gttttctgtc 420
cacatgcaat caccctgggtc tacaa 445

<210> 2893

<211> 438

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2893

agcttcttca tcagtgcac ccttgaagaa aggaggctca taatcagctg gctgcaggat 60
 aaaacaatta tattgtcaaa tcacctgta tataagtcag ccctttgctt gggcataaca 120
 gaatgctaaa atagtcacca gttgcatagc aaagtatgca tttcaagtct gggcaatgca 180
 gaaattcata gaaaggataa aaggagccga gatttgctat tcatgttaaa gaacataaccg 240
 tcacatcatc atagtagagg agcttcatca gaatagtgcg ctagggaaag aatgcagaaa 300
 tcagagtttg taatgattac ttaaacttga agagagaata ttatgaaatt atcattcaga 360
 gcatttgaat ttctttacct cttctggcat tntctccaga agtctcatca actgaaccag 420
 agttcggatc atcttaca 438

<210> 2894
 <211> 413
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2894

tactaagctg gattccttta gtagggaatc tatectacct aagatggagc ataaccagat 60
 cacnctcatt aagaattagc tctttccttc ctctatagcc tttatttgaa tacacctttg 120
 tttggttctt aaccctctca tgccacttct ttaccaactc tgacctagat tcccccttctt 180
 tatgtataaa agaagtgtct agtggaaggg gaatgaggtc taatggtggt aggggattga 240
 acccatagac aacctcaaaa ggggatggct tgggtggttct atgaaccccc atgttgtagg 300
 caaattctac ataaggaaga tactcattcc aagggtgcct ttcagaaaac cccttaanaa 360
 gatggataaa gacctattca ctacctctcg ttgacaatca gtttgtggat gac 413

<210> 2895
 <211> 475
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2895

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 ccaataggct gcttcttctg ctacacaacc tgaaagtga agatgttgcc tcaatttcaa 120
 gagtgacatt ccaagtgtaa ccacggaatg gccattagca tttgtcaagg tgtatattat 180

atttcattca caatattttc tttcgtagca aaatggattt aattaaaaaa gttaacatta 240
 taattttaat aacctcatga atctgattat aattaaatca ttaagtttta attaattgatt 300
 ataattgtat attttctttt aaaatatact ttctaaacaa aaagctaatt tcagataaga 360
 tattcttcaa gataattaan aaatgactac aggcttttgg ttctaaatag ggttcttcta 420
 gtacgttaaa gacatactac tttagagtat naaagtggta tttgctctaa ttatt 475

<210> 2896
 <211> 418
 <212> DNA
 <213> Glycine max

<400> 2896

agctaggatt tcctcttatt agggaatcta tccttcctac gatggagcca aatccagtcc 60
 cccacattaa gaactagctc ctttcttctt ctattgtctt tagttgcata cacctttggt 120
 tggttctcta tttggttaac cctctcatcc agctccttta caaactttga cctagattcc 180
 ctttctttat gtataaaaga agtgtcaagt gggaggggaa ttaggtctaa ggatgttaga 240
 ggattgaacc tatagacaac ctcaaaaggg gattgcttgg tagttctatg aacccccttg 300
 ttgtaggcaa attctacatg aggaagatac tcactcaag acatatgggt gcctttcaga 360
 agagccctta taatggtgga taaagacctt ttctactac ttgtttgccc atcatttg 418

<210> 2897
 <211> 416
 <212> DNA
 <213> Glycine max

<400> 2897

accctgcttc ttggacaaaa tcttctttta aggtaaacac aaaatgtgat ttgcaagtga 60
 ataacatgtg tgaggcattc aacaatgtaa taatggagta tagagataag ccaattatta 120
 cactattgga gggaatccga ttttacataa gctctataat tgtcaagtta aggactatcc 180
 tcatcacgta tgatggttca atctatccaa aagctcagca aatcattgat aaatataaaa 240
 aagcatgtga agcatggcgg gcacattggc gtggtgatgt tgatttgtct ttatttgagg 300
 tgtcaaaggg catggaaaaa tttgttgtca atcttaaaca atagacatat tatagaaagt 360
 gggagttaac tagaaattca tgcactcatt ccataccatg catgtggatc aatagt 416

<210> 2898
 <211> 466
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2898

agcttcaacc aaggagagat ggaccatttc aagtgttga aagaatcaat gacaatgctt 60
 acaaagttga gctgcccggg gagtataatg ttagttccac cttcaatgtc tcagacttat 120
 ctctttttga tgcagatgga gaatccgatt tgaggacaaa tccttctcaa gaggagaga 180
 atgatgagga catgaccaag aacaagggca aggatccact tgaaggactt ggaggaccta 240
 tgacaagggc tagaacaagg aaagccaagg aagctcttca acaagtgttg tccatactat 300
 ntgaatacaa acccaagttt caaggagaaa agtccaaggt tgtgagttgt atcatggccc 360
 acatggagga ggactaaatg gcaccactct gtctcaattt tagagtgggt aattngtcta 420
 aataatggcc caatccttgt aaagttggca gacaaaaaat atgttt 466

<210> 2899
 <211> 367
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2899

agcttcgaaa tgaatgttga agctctgagt aaattcaaac gacaatatac ttttactcag 60
 atgtccgatt gagtccgtga atatatcgaa aagctcgaaa ttgaatgtag aagctctgag 120
 caaattcaaa caacaataac tttttactcg gatgtctgat tgagtcccg aatgtatcga 180
 aatgctcgaa atggaatacc gaagccctga gcaaattcaa atgacaataa ctttttactc 240
 ggatgtctga ttgagtcccg taatatatcg agatgctcga aatggaatac cgaagccctg 300
 agcaaattca aacgacagta actntttact cggatgtctg attgagtccc gtaatatac 360
 gaaaagc 367

<210> 2900
 <211> 454
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 2900

tatgagaatt ccaagctnta taagcaaana gtaaaaattt atcatgacaa anagctatca 60
aaaaggaatt ntccacctgg tcaataggta ttgttattta attctcgatt aagattgttt 120
ccaggtaaga tgaaatccaa gtgggtttgga ccattcatca tcaaagaatt tatgccacat 180
gaagcagtga tactagagga tccaaccacc aaaaggacat ggactatgaa tggtagtagg 240
atcaaacact acctatgtgg agattttgag aggataatca ttgttgtcca tctacaagag 300
acttgaacca caacaaagat gttcagctag aaagacgtta aagaagcgct cctaggaggc 360
aacctagtat ttctaaacct tactctttaa ttntcttttt gttaaatttc atatntgtgt 420
tatttaaata ttttttggtt aaaatatgtc taaa 454

<210> 2901
<211> 194
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2901

cgttcatgtg tcttccatct tcgagtttgt tgccatgcgt agtgattgct taaggcaatt 60
ctccattctc aaccctttnt cggagcccca tgaatagcgt tctcgttcat gtgtcttcca 120
ccttctagtt tggagccatg cgcagagatt gcttagtgca attcttcatt ctgaaccctt 180
ttttctgaac ccca 194

<210> 2902
<211> 407
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2902

ctcaagcttg agtaaataaa acgacaataa cntttactc ggatgtccga ttgagtcccg 60
taatatatcg agacgctcgt aattganaac agaaactctg agcatattcg aacgacaata 120
acttttgact cagatgtccg cttgtgtccc ttagtatatc gagacgctcg taatagaaaa 180
cggaagctct aagaaaaatc aaacgacaat aactnttaac tcggatgttg gatagagccc 240

cgtaatatat cgagacgctc gaaattgaaa acagaagctc tgagcaaatt caaacgacaa 300
 taacttttga ttcggatgctc tgattgagtc ccataatatg tgcgagacgct cgaaattgaa 360
 aacagaagct ctgagcaaaa ttaaacgaca ataacttttt actcgga 407

<210> 2903
 <211> 451
 <212> DNA
 <213> Glycine max

<400> 2903

agcttccatc aagaagatag agattagcta cacatacctc tctaatagct aagctcacct 60
 ccttgagatg aaaagctaga tcttagctac acacccccta taatagctaa gctcaccccc 120
 atgacaaaaa aacatgaaaa tacaaaaaaa aagtctttac tacaaagact actcaaaatg 180
 ccccgaaata caaggctaaa accctatact actagaatgg ccaaaataca tggcccaaac 240
 gaaggaaaaa cctattctaa tatatacaaa ggtaagcggg ctcatactta gcccatgggc 300
 tcaaaatata ccctaaggct catgagaacc ctagggcctt cccttggatc tttagcccaa 360
 tctacttga gtcttctacc caatgccctt gcgggatagg attacatcat acttgcccca 420
 agaaccatct aaagatgtat tgcggaaga t 451

<210> 2904
 <211> 482
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2904

agaaattcat gaaggctc taatgtctga aatctatggg attaagatgg tcattgacca 60
 atccctattn tatgatttaa caaaatttcc tagtgaaggt gtaccttttg aggggtgact 120
 gattgatgaa tggaaattcg atttctctgt gcatgatgcc cgccggttgg tttgcaccaa 180
 ccaagcggat atgaccggaa ggcttcttgc cggttcattg gcttttgaaa gtcgcatcct 240
 ccattacctt atagtttgca ttntgcttcc tagatcttca aaccttgctt aggtttctaa 300
 agaagatctc attgtcatgt gggcctttca taaaggttta caaatcgatt gggcacatct 360
 tggtagatat tgcatgcata aggcattngc attgaatgcc acattgcctt atnctcatct 420
 nagtactctn tttcttcaac acttcaacat ccctcttgat tctgaaccct atgttcaaat 480

<210> 2905
 <211> 443
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 2905

agcttggtta gatatttaaa tgaagtagaa aaaagtgaga aaaatataaa tattataggt 60
 gataagaaga aaaacacaga aagaaatgat cagtattaat aaagtatttt aaaaaaataa 120
 aatatctaaa aatcattact cattaggtat tgccctttaa ctatatattg aaattcaaca 180
 cttnttgggt gcttacggtg cacttggtgt gcttattaaa cagaagaatt aagaaagtat 240
 ttctttttct aggctcatac ttgctaaaaa aatcaagaaa ttaaaaaata tttaataaga 300
 agtatacata tttaataaat taatttaatt taaaacataa aattagttgt tttttatttt 360
 ctatttgaat tattgacaag taaactaaca cgtagtagac gatagtcaat gctgtgagga 420
 agaagacgtg tgtggacaac ctt 443

<210> 2906
 <211> 452
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 2906

agctntcgca aggcgngat gttcatgagc agatcagttc gttgccgtgt agtcatgac 60
 tacataatgt cagatcatat tactttgtat gtatgacaaa aatgaaacca agatttttgg 120
 acctctcatt tatagttata caagggttgca tacctccatg cttgttccat ccttagctat 180
 ctgttgatgat ggagcaaatt caacaatata atcagttaca gatagaagcc actcaatttc 240
 ttttctccac ctggcctttc tttctgagga cattggctcc agctttgatt gttctccgaa 300
 aacagatgct gcattgaatc aggaaacaaa ttattgaatg gaaatttcat tgagacttga 360
 gagatcacat ctcaagttagt cacagttata atatgcatgt gctttgaatt gaattgagat 420
 gactacacta tctattaatt ntatagaaat ca 452

<210> 2907
 <211> 464
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2907

agcttcttag tttcagatga tgctgatgag tttgtagcta cctcatgtac tcctctaatag 60
 actatagcat catttctggc gctaaactgc tgggagttgg aaaccatctt ctcaattaaa 120
 tttctggcct tagcaagagt catgtctcca agggctccac cactggcagc atctatcata 180
 cttctctcca tattactgag tccttcataa aaatattgga gaagaagctg ctccgaaatc 240
 tgatggtgag ggcaactggc acataatddd ataaatctct cccagtattc atataggctc 300
 tctccactga gttgtctaata acctgagata tccttctga tggtcgtggc cctggaagca 360
 ggaaattntt tttctaagaa tactccctta aggtcatccc aactgatgat ggaccttgga 420
 gcaaggtaat acaaccagtc ttttgccact cctcttaaag aatg 464

<210> 2908
 <211> 468
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2908

tatgctgcan acatctacaa cagacctcct caacctcagc agcanaatca gccacaacag 60
 aataattatg acctctccag caactagtac aatccccggg ggaggaatca tccaacctt 120
 agatggtcga atccttcata acagcagcaa caacaacaac aaccttattt tcagaatgct 180
 gctgacccaa gcagaccata cgttctcca ccaatccagc aacaacaaca gcaacagccc 240
 agaaacaaca aacagttgag gctcctccgc gaccttcctt tgaagaactt gtgaggcaaa 300
 tgactatgca aaacatgcag tttcaacaag agaccaaagc tntcattcag agcttaacta 360
 attagatgag acaattggct acataattaa atcaacaaca gtcctagaat tctgatagat 420
 taccttctca atctgtccag aatcccacaa atgtgagtgt cattacat 468

<210> 2909
 <211> 486
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 2909

cgtattntat ttattntaat cccaggaaca tactccattg tcagaatctg cattggaaaa 60
atagttaaat ttagataaaa tatgaaagat atcagaagta acaatgggaa agatgcataa 120
ctgctatatt attatctata tgaaaactga aggctaaacc tgtgggtgtgg tataatccca 180
gatgattgta gggactttca cataatccaa gttttcaaag ttacttgcaa atagttctgc 240
attagcagct tccttggtgt aatcaatctc ctgaaaattg caatacatgt tacattaaca 300
ggattagata aagttgagga tgtgaagaaa acacatgana acatcattct gaaacatgaa 360
caagatccac aaattaaccc ctccaaacct gcaaatttgc ttaagagntc ctttatacat 420
tggctaacct ataatacttg aaaagcaata atgttggtca acgcttagac aacgactgat 480
gacata 486

<210> 2910
<211> 386
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2910

tccttaagaa gattcctaaa gaagctagag cttagctaca catacctctc taatagctaa 60
gctcacctcc ttaagatgag aagctagagc ttagctacac acccgtata atagctaagc 120
tcactcccat gacaaaaaac atgaaaataa caaaaaaagt ccttattaca aagacaactc 180
anaatgcccc gaaatacaag gctaaaaccc tatactacta gaatggccaa aatacaaggc 240
ccaaatgaag gaaaaaccta ttctaattatt tacaaagata tgcgggctca tacttagccc 300
atgggctcga aatctaccct aaggctcatg agaaccctag ggccttttct tggatctcta 360
gcccaatcta cttggagact tctagc 386

<210> 2911
<211> 390
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2911

tgagaaaata	acttttacta	tcaaagttgc	ttagtctatc	antttggtag	tatttcacgc	60
tgacatatac	taactttctt	cccaccctaa	caacactatc	ttgttcacat	caatgatatc	120
atcacctggg	tctaactctga	gaaagcctat	tcttccatat	tgcgtgaaga	atcatatgaa	180
acaagtcata	cttaacagga	actttgtgcc	acangaagtg	ctgctgaacc	ttctttactc	240
ccaaatgcag	tgccaggtag	ttctcttctg	ggatngagag	aagtatgtct	ctgagacttg	300
ggacatccct	ttcacgaaca	aacagggaaa	atgcctncca	cttcaatacc	tcanataaag	360
gaggcacant	aatatctgat	atgataactg				390

<210> 2912
 <211> 487
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2912

taagatacca	cctaaggcaa	agattttacc	tgagagactca	tcaaagactg	cttaccaacg	60
aagctgaacc	taagagggag	acaagtggag	ataactgacc	caatgtgtcc	gctttgtaat	120
aattccgagg	aggatgcagc	acacctcttc	ttcagctgca	gcaaggtcct	ccccttgtgg	180
tgggagtcac	tttcatgggt	taagtcagtg	agtgccttcc	ccaaagaacc	caaataccat	240
tttatgcagc	atactatata	gaacgctaca	cgatcaaagg	atatgagatg	gagctgctgg	300
tggaatagccc	tcacaaggac	catatggcaa	cacagaaaca	agctgttatt	tgataatcaa	360
actnttaacg	caaccaagct	gatggatgaa	gcacttcttc	ttttatggtc	ttggcttaca	420
gcaatggaaa	aagaatttga	tacacatttc	aatcagtggt	cctctaattct	ggcagatgcc	480
tttatgt						487

<210> 2913
 <211> 364
 <212> DNA
 <213> Glycine max
 <400> 2913

acctttgaag	ccactgggtc	tacaccctg	tgagagacga	ggtttccaag	gtactccacc	60
tgagactgag	caaagaagca	cttacacaac	ttcaaaacaa	attgattttc	gagcaatacc	120
tgaaatgtgg	tctctaaatg	acgtagatgt	tctctgattg	accactata	aatgagaatg	180

tcategaaga aaatgatgat gaatcggttg aggtaaggtc tgaagagcat gttcatggtg 240
gcctggaatg atgatgatgc attacacaac ccaaatgaca ttactttgaa cttataatgg 300
ccatgggttg ttcaaaagtc tgttttggga acatctgctg agtggatgcg gatttgatgg 360
tatac 364

<210> 2914
<211> 455
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2914

agctagcagc ctagttgtag ctntcacgct nntttctcta atcagtcaaa tgctacacaa 60
ttcatatact aaaagctacc aaatactcct acgtggcatt gctagaaatc gatagccgtc 120
aaccttctac gtgagatgtg cttaccttac cacattaaag ctagtacttt acagtttcta 180
ccatttggtg tctgactcct ctctatatcc tttatattta cttttaatat gggttaattta 240
gtaattctag ttaagataac aaatgatgat aaagaaaaaa attaattaat aaataattca 300
gaatgggaat aaatttacia aacataaaat atgatgagac aaatatTTTT taaagcataa 360
tttgtctttg gaaacttcaa tgaatctcan attaattgga atgtaattat atttcgatag 420
tagctgtag aaactctaata ttatataatc gaaat 455

<210> 2915
<211> 439
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2915

tatgctgcan acatttataa tagacctcct cagcaacaaa accaacaaca acagaataat 60
tatgaccttt caagcaatag atacaatcca gggtggagga gtcattcaaaa tctgagatgg 120
acaagtcctc caacacaaca acaacaggct gtccctcctt ttcagaatgt tgctgggtcta 180
agcaagccat atgttccctcc tccaatacag cagcagtcac cacaaagaca acaagcgact 240
ganggccct ctcaaccttc cttagaagag ttagtgaggc aaatgaccat ccagaatatg 300
caatttcagc aagagacaag agctttcatt catagtctga caaatcaaat ggggcagatg 360

gctactcaga tgaatcaagc tcagtcceaa aattctgaca aatggccttc acaaactgtg 420
cataatccga aaaatgtaa 439

<210> 2916
<211> 472
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2916

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tttatcgnt aacatggacc gttcaaaagc ataaaatcaa catgtaactc taccactttt 120
gcaagaacta cgtaggtctg atttcctcat cgcaattgag gatacgtagg agcaaaagcc 180
ccgcttttgt cgaccacccc tagagatcgt taatgggtcca gtgccttaac gtttctcttc 240
tttcacaacc aagagatcgt taatgggtcta acgccttaac gtttctctcc tttcaaaaac 300
caaaagatcg ttaatgggtcc aaaggcctta acgtttctct cctttccaaa aatcaaagat 360
cgtttaatgg tccaacgcct tatacaactn tagttcggtc aaaatatatc ttacaaaana 420
ggataaaaat aacttaacca acgttttagtt ctcaaagaac tacgtaagtc tg 472

<210> 2917
<211> 474
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2917

ntntgactcc tgattctntg gaacttgctt aactctggat tctntagcat catcaaaata 60
atcttgaag acattgcttc cacaatagaa agttggacta gtcacttag gtccctatat 120
ggaaggagtt caaccttgct cctcacttcc atattaagcc cactaagaaa cctagctatg 180
cttgttcttt cccctccct aagtctgct cttaaaagga gtagttccat ttgttgtcta 240
tattcttcaa cacttatact cccttgctta agcctttgga acttggtccat aagctccctt 300
tcatagtagg agggaatgtg cctcttctta agggcactct taagatcatt ccaatactct 360
actggaggat ccncatgaat ccttcgttcc ctaacaaggg aagtccacca atagagggca 420
tacccttgaa agctaagggt agctaatagg aactttatct cttcactaat atga 474

<210> 2918
 <211> 382
 <212> DNA
 <213> Glycine max

<400> 2918

tcacatgttt gtcacatca aaaatgggga gaatgtgaat gtatgtatac atgatgttga 60
 tgatgtcaaa agaagaatca aacaaggctc attctgcttc aagattaata caagattgtt 120
 tcaacaaaca aagctttgat tcaagatttc ttcaagatca agccttgccct cacaatgaaa 180
 ggcttcaggt cattcaaggc acatgtaatc gattaccaat acatgtaatc gattaccaat 240
 ggttggaag tgtgtaatcg attacacatc atatgtaatc gattaccaga gagggatctc 300
 aaggaatatc gccaacagtc acatcttatac attcgaatac tgaatgggca tcaaaggcct 360
 atatatatgt gtgacttggg ac 382

<210> 2919
 <211> 380
 <212> DNA
 <213> Glycine max

<400> 2919

agcttgtgcc agaatccgca atctacgcca agttgctggg actcgagact caaatagact 60
 ctgctttggc taggaagaaa atcgatgtgc aggagaatgt tatgaaccct cgctgtgtta 120
 ggaaaacgct tagagtttat gtttacaaca ctttttcgaa tcacgtgaaa gtggagcctg 180
 tgaagaatgg tgtggaggag ccttcttggg cgcttatgat aaccggaagg gtgttggaag 240
 atggtaagga ttctgtggcg gaagggattt cgacgaagga atatccaaaa ttctcggctg 300
 gtttcaagaa gattaccata tacttggatc agggcttgta ccaggataac catgttggtg 360
 tgtgggatag tgcccgttct 380

<210> 2920
 <211> 404
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2920

ctgagacaat tcanacgaca acaactntnt actcggatat ctgattgatt cccgttatat 60
aacgagacgc tcgaaattga atgtttaagc tctgatccaa ttcaaagac aataaatttt 120
ttctcagatg tctgattgag tccaataata taacgagacg ctcgaaattg aatgttgaag 180
ctctaagcca attcaaacga caataactnt ttactacgat gtctgattga gtcccgtaac 240
atatcgagac gctcgaaatt gaatgttgaa gctctgagac aattgaaacg acaacaactc 300
tttactcgga tctctgatng agtcccgtca catatcaaga cgctcgaaat tgaatgtgga 360
atctctgagc caatttacac gacaatacac ttttacttcg atgt 404

<210> 2921
<211> 413
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 2921

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taanaaggta ttgtcgtttg aattggctca cagcttcaac attcaattcc gagggctctg 120
atatattacg ggactcaatc cgacatccga gaaaaaaatt attgtcgttt gaattggctc 180
agaggttcaa cattcaattt tgagcgtctc gatatgttac gggactcaat cagacatccg 240
agtaaaaagc tattgtcgtt tgaatttgct cacagattca acattcaatt tcgaggcgct 300
cgatatatta cgggactcaa tcagacatcc gagtaaaaag ttattgtcgt ttgaattggc 360
tcagaggttc aacattcaat ctcgagcgtc tcgttatatt acgggactca atc 413

<210> 2922
<211> 324
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 2922

tcanattatc atccanaagt atgttgctgg atttaatatc tcgatgcacg atatgtgggtt 60
cacactcctt gtgcaaataa gctaattcat gagctgcacc ctgngcaatc ttgagtctta 120
catcccattt tagagctgaa tttccatcct cactctcatg cagccaatag tcaaggcttc 180
cattctccaa gtaggagtaa attaacaatc tgtcattgaa atgctgacaa taacctttaa 240

gtgaaacaag gttcttatgt tgagctcttg agagtgcctc cacttcagct tggaattcac 300
gttccacctg accacagtac cctg 324

<210> 2923
<211> 362
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2923

tacaccgcg ctgtttgtat taatgatcat cgcttgtctt ccttattata tattnngata 60
tcatcattca ttttgggtgc tttcctctgt gggcatggcg attctgtcct aatttcttgt 120
agaatgcata tagattcata attctacttg aggaaagtta tttattagat aatttaaagt 180
tctttaatct aatattgatt gctcgaatgt tctcttataa agaagttaaa tttttataat 240
gcttaacact taaaaatata gaatgttaat tcccttctaa aaagtgagaa attgaaattt 300
tcttcttgat aaaagagcct gataaaatat ctgcgtatct tctttataac ctccgctctc 360
tc 362

<210> 2924
<211> 342
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2924

acctgtgcc a tctttacat attatggaat tcgactttnt gaataaatat gcattgtctt 60
aaacgtttca taatttggtg atatagatta ttatgctaac tcatttaaaa gatattaaaa 120
aattatataa actaacacat caattattga atttagttta tataacgatt aggatgataa 180
taataatggt cggaaccaac aaaaagataa aataactatt aataagaaat aaaaatgaat 240
atattttact gtttgggtat tgtgtatcta gaatgagcat gatccaataa taataaaaaa 300
aaaagtgagc atgacttcga tccgatgaac ttgatttgtc tt 342

<210> 2925
<211> 381
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2925

ngcttcttgc aattccaaga cactagagag cttcttaata ggtggcatgt cgcacttgta 60
ctntttttta tctaatttgc atcctgcaaa atcagaatct gaaaaacctg ttatgcttaa 120
ggagatacct ttgggataca acaaacctac attggttggtg cccttaagat acttaatgat 180
ccttttaaca acaactaagt gagattcctt aggattggac tggatatctg cacataagta 240
aacgcttagc atgatatcca gtctacttgt agttaagtag agaagtgatc caatcatacc 300
tctatatctt gattcatcca ctgatttacc tttctcatct aaatcaaggt aggttgatgt 360
agccattgga gtatatgctt c 381

<210> 2926
<211> 354
<212> DNA
<213> Glycine max

<400> 2926
gagcttatat atatcgaggc gctcgatatt gaacaatgga agctcttgag atattcaaatt 60
ggtcataact attaaactcg atgttcaatt catgcgcac acatatagag acgcttaata 120
atgaacaacg gatgctctcc agaagttaaa acgcgattaa gtattcacac tgacgtccga 180
ttcaggctta taatataacg cggcgctcga aattgaacag cggaagctct tgagaaattc 240
taaagtcata acgttaactc ggatgtccga tatatgcga tacatataga gacgctaaga 300
cacgaacaac tgatgctctc aagatattaa aatggccaca agtgctgaca ctga 354

<210> 2927
<211> 388
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2927

ttcatcatga atatacacgt cattcaatat tctacactca tttatccaac ataattgcta 60
tattttaatc aattactgtc aaacacactt tttgacagca aactaaagt gccatggata 120
agacttgagg aagaagagat aatgaaggag aggagagaaa agcacggaat ttgtgctcta 180
agagagctct gaaatctgaa gtttaatttt taaatgatca aagttgaaaa aatgcacaca 240

catggcttct atgtatagcc taagtgtcac acaaaattgg agggaaactt gaatctctat 300
 tcacaatttt cttgaatttg aaatcgaatt tgtggagcca aattgtggag gcanaatttc 360
 actaattatg attagtgaat ctaactat 388

<210> 2928
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2928

agctaaagga agtgaaagaa ttagtatggg cagatatgtc tccgcattga ttggtaaatc 60
 tgttcccaa atccctgaaa aatgtaaaga tccaggtaca ttcgacatac cttgtattat 120
 agggaacaat aagtttgata atgccatgct agatttagga gcttctgtta gtgttatgcc 180
 tttgtctatt ntaattntc tatctctagg tccttngcag tcaactaatg tggttaattca 240
 tttagctaag agaagagttg cctaccctgc tggtttcata gaggatgtct tagtttagagt 300
 tgggtgaactg attttccttg ttgnattnt atatttgaat atggaggagg gattntctan 360
 aggatcagtt cccatcattc tangcagacc ttttatgana actgctataa ctaagataga 420
 tgttatatgca ggcacactat ctatggag 448

<210> 2929
 <211> 493
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2929

gatccaagaa ggcgtatatt gcttgggatg actatgactc atccgatcgt tcggagaagg 60
 agatcaatct tctatccaaa gactatgaaa gcgatgaana tatctctcaa gaagattaag 120
 caaaaagcaa aagtctgact tctaccttca aagatctagt cacttgaatt atgaaaaagg 180
 taacatcaaa accattctct tttaaatnta gctgattgga atttntcttt caattaactt 240
 gggtatatga tgactaacia aatcttaatt ggttggcttg gatgattgct atgtgcttat 300
 atgaatgatt gagttattnt ctttcttaaa gcatgaagtt taatattaaa acaaaccagt 360
 gatagtacat atgattcttg catgaatttt ggataatatg tgatcattca tanaagttnt 420

tttaaaaaaa tctattatgg tatatatatt tggattatat aagagtttta aatataaata 480
ctttgactct ttc 493

<210> 2930
<211> 464
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2930

ctacatctnt atctggggtta cccaaatcat tatagacatc ataattatag atcctttcat 60
gttccttgcg ctctccggtt ccatttcctc ttaaaatctc caactcttct tccctgtact 120
taactaatgg acctggtggt gcacttggaa gatatgtcta caatatatag atttcatgaa 180
ttaatnttct cattcacaaa atgaaaataa ttaaaaaaat gttgtgacaa tatacaattg 240
gaaataaatg agctaagtaa atcttgtaaa cattaggaaa atagtactta gattcaaaac 300
tactagactt accttattgg caaagaaaat gcgatccttt ntgtcgtagt ctttaaagtt 360
gtaaacccat gagttacaaa caaagtgaat ggttccttga tttggaatgt cctcaagagt 420
gacactgaca aggaagaact catcactacg tatagttctg atgt 464

<210> 2931
<211> 413
<212> DNA
<213> Glycine max

<400> 2931

tccattgttc aatttcgagc gtctcgatat atcatgcgcc tgaagtctac ctcttagtga 60
aaaataatga ccatttgaat ttctcgagag ctttcactgt tcaatttcga gcgtctcgat 120
atattatgcy cctgaatcgg acctccgagt gaaaagtaat gaccatttga attgctccat 180
agctttcatt gttcaatgtc gagcatcttg atatattatg cgcctgaatc ggacctccga 240
gtggaaagtt atgaccattt gaatttctcg agagctttcg ttgctcaatt tcgagcgtct 300
cgatatatta tgcgcgtgaa tcggacctcc gaggtaaaag taatgaccat ttgaattgct 360
caagagcttc cgatgttcaa tttcgagcgt ctcgatatat tatgcgcctg atc 413

<210> 2932
<211> 312

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2932

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cgaggagatn tattgagaat ctttgatctg caattcgtca aggtgattgc tcaattactg 120
attatttcac acacctttga agatttcggg agttgagtct aagacttcac agagaaaaag 180
actgtgtgat caagagaatc acgagtgacc atggcagaga gtttgaaaac agcaagtta 240
ctgaatactg cacatctgaa ggcatactc atgagttctc tgcagccatt acaccacagc 300
anaatggcat ag 312

<210> 2933
<211> 369
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2933

ntagagctng tttgtgggat gagggaagtt ggtattgtac aaagattttc ttcaatcagt 60
tatgctctgc gggcttgtgg gaaccttttt atgcttaaag aaggaagatc atttcattct 120
tacatgatta aaaatccttt ggaagatgac tgtagattgg gcgtagaaaa tgctcttctt 180
gaaatgtatg ttagatgtag agctattgat gatgcaaaat taattntaga aaggatgccg 240
atacaaaatg agttttcctg gactactatc atatctggat atggtgaatc anggcacttc 300
gtagaagcac tggggatctt ccgtgatatg cttcgatatt caaaaccag tcagttcaca 360
ttaattagt 369

<210> 2934
<211> 476
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2934

tcattgcttaa ctatgtatgg caaaaattca ttactgttgt tcaagacata cttgtgagct 60
tgtaacaaat cttctacact tggagtgatc acatgcagtc ctcttgaacc cttaccaccc 120

actctgtcat catgccgaga ctccangaagg ccaacagggt tagccttctc taagtattat 180
gaacaaaatt caatggcttt ttctgcaatg tacctctcaa caatagatgc ttctggacga 240
tatagattct ttgtataccc ttttaagatc ttcattgtatc gctcaaccgg gtacatccac 300
cgtagataaa caggaccaca acatttgatt tctctgacca gatgcacaat caagtgaatc 360
atgatgccaa agaaagtagg gggaaaatac atctccaact ggcacagtat aattgcggcc 420
tcantttcca actcatcata catgactgga tcaatgactt tgctacatat agcatg 476

<210> 2935
<211> 383
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2935

tggcctcaac agactactta tttccagaag gaaattcaat caatcgacct ccaatatgta 60
atggaaaggg ttaccactac tggaaaaccc gtatgcaaat atctattgag gcaattgact 120
taaacatatg ggaatccata aaaatagggc cttatatacc caccacagtt gaaagaacca 180
cacttgatga aagcacaact agtggaagca caacaatata aaaacctaga gatagatggt 240
ctaaaaagga tggaagacga gtacgatata atttaaaagc caaacacata attacatcta 300
ccctaggaat ggatgaatat ttcanggttt caaattgtat gagtgctaaa gaaatgtggg 360
acactctaca agtcacacat gat 383

<210> 2936
<211> 332
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2936

cacctgagct gcagcttcct tggttaattct gagcgtctca atatattatg cgctctgaat 60
cagacatctg agttgaatgt tatgtccatt tgaatttctc gagagctctc gatgatcaat 120
ttccagcgtc tcgatataatt atgcgccaga atcggaccta caagggaaac gttatgacca 180
tttgaattgc tcaagagctt tcattgttca atatccagcg tcttgatata atatgcgcct 240
gaattggact ctcggtgaaa agctatgacc atttgaatgg tcaagagctt ncattgtcaa 300

GenBank accession number: U00096.1 (H. pylori strain NCTC 11637 genome) (1997-01-01)
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GenBank accession number: U00096.1 (H. pylori strain NCTC 11637 genome) (1997-01-01)

ttttgagaagc ttcgatatat catgcgcctg at

332

<210> 2937
<211> 415
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2937

tcatatgatt cangaagctc acanagcacc tganagaagt ttcttttagac taaaattgca 60
atctaaattg tacatgtcaa cagtttttca ccccaaaatt tagtgtagca tgcctttcaa 120
ttactgcaaa taattacttc accaattcaa gttcgtccta cctttccaaa tcaataaata 180
ctaaaagtgt tattgttagt tataggcaaa tagaaattga tacatactga gtccattaac 240
tttgattaat accaaaaggc aaacataac atgtctttaa tagtaataaa agggttacct 300
tcacatcgtt gagaaagata aatttacatc cattcagatg ggctcagact gctatatcca 360
tgtcttctac aattatcctc tcaagccaat caccagattc ttcaagtgtt tttat 415

<210> 2938
<211> 413
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2938

ctagccttag gttgtaccat gttgctcatg ttgttcctcc tatctctaag agtgaatcca 60
ctatatagga agagcacatg gcttttgaag aggcaacaaa tgaagggatt tgactgaagg 120
gtccgattag aaatctttga ttttcacaag aaaagggtgt cattttctac aacagtctaa 180
gtgcaatcta tttagccaag gatcaattcc atcatgaaag gactaaacac attaacaatca 240
aatacaactt attcgtacta agaataaggt caaagtccag aaagttaata cgagggagaa 300
tacaactgat atgttcatga agcatgttcc aagaagtaag tttatgcact gcctggatgt 360
acttaatgta gatcgctaga gatgaacaaa gttacttgta attcanaaat gta 413

<210> 2939
<211> 457
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2939

gctaagcttc aagagaaatg gctcagcaa attccttatt tccatattga aattctatca 60
atagacctcc aatctttaat ggagagggtt accactactg gaaaaccga atgcaaattn 120
ttattgaagc aatagactta agtatttggg aagccacata aatagggccca tatataccta 180
ccatagtaga aagaattaca atagatggta gcacatcaag tgaaagcata acaatagaaa 240
aatctagaca tagatggtct gaagaggata gaagatgagt tcaatacaat ctaaaagcca 300
aaaacataat aacatctgcc ctgggaatgg atgaatattt cagggtttca aattgtaaga 360
gtgctaagga aatgtgggac actctacaat taacacatga agggaactac agatgtaaaa 420
gatctangga taacacacta acccatgagt atgaact 457

<210> 2940
<211> 323
<212> DNA
<213> Glycine max

<400> 2940

tctggtctca atttcgagca tctcgatata ttacgggact taatcttaca tcctatttaa 60
aagttattgc ggtatgcatt tgctacgagc gtccattttc aatttcgagc gtctcgatat 120
attactggac tcaatcggac attcaagcaa aaagttattg tcatttgaat ttgataggag 180
cttccgtttt caatttggag cgtctcatta tattacggga ctctgttggga cattcgagta 240
aaaagttatt gtcctttgaa ttggctactt gcttatgttt tcaatttggga gcgtctcgat 300
atgttacggg actcattcgg aca 323

<210> 2941
<211> 219
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2941

agcttganat gaataatgga agctctcgag aaatatatat ggtcattact tttcactcgg 60
attggcgatt cagggtgcata acatctcgag acgctcaaaa ttgaaccacc gaagctcttg 120
agaaattcaa atgggtcataa gttttcacat ggatatccga ttctgtgtta taatatatcg 180

agaccgtcga aattggacca cgacttcgga aatccaatg

219

<210> 2942
<211> 500
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2942

atctctaagc acctgcggtc gcagctaata gatttctgaa aaaggacatc ttttaaatgta 60
agaatcgtga gttcaataat gagatttcaa gaactttcag gtagaagaaa agatgaaggt 120
tataaagaat atacgcaaac attctgaaag tgttttctat ccataagaaa atttcaattt 180
ttcacatttt agaaggaaat taaaattcca cgtttttagt tctttaaaaa ttttaatttaa 240
aattccaaca tttaaatctt tcataaaaaa catctaaata atgaatttta gattaaaaaa 300
atctaaattc tctgataaat tacttttttc atttaaaatt ttctatccaa acgcactcta 360
atttcttnga ataagtttct nttcattgta gaaaggacag ccttaatttg tttgtccacc 420
aatcttaatc aacttgataa aggagttatg atatattagt gcatgtaata ttaagagata 480
atgctcatta tctgtacaag 500

<210> 2943
<211> 496
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2943

agcttactca agggattgtc tgganactgg cggatagaag agatgggtgc ctttccttct 60
gcagtcttag actcggngaa atacttcttc ataaaatttt ctaccacccc gtcccaagtc 120
ttaagactgt tgtcttttaa tgaatgtaac catctttttg cttctccgga cagtgaaaat 180
gagaacaaac tcagccacac aacatcttct ggcacacctg caagcttgat tgtattgcaa 240
atttcaatgt aagtcgctag gtgtgcgtac ggatcttcat tcggtaggcc atgaaataaa 300
ttgccttgta ttaaatgaat tanagaatgg ngataagtaa tattatgtgc ttgaacctct 360
ggcgcgcta tactagttaa aaattgtggc acaacagaac tagagtagtc ttcaaaggtc 420
actcttctag gttgatcttc agccattatg tnggcctcaa gtgccctggt gtagattccc 480

<210> 2944
 <211> 362
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 2944

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 caacagtcac atcttttcgt ttggttcttg aatgaccatc aaaggcctat atatatgtga 120
 cttgagacan cgaattgtta agagtttttc agaacaacaa gtgtttattc tctcaaaaag 180
 caaaatcggt ntatcctctt aagaattcct tggccaattc aattgcaatt cattaaggaa 240
 tcatattgagt gctcagatgg taaaatctat ctctttcaag agagattcat tcttcttctc 300
 tttctgattc actaagggat taagagaccg agggctctctt gttgtaaaag aattctaaac 360
 ac 362

<210> 2945
 <211> 512
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 2945

agcttgcac tattcttaat tatataaaaa gactcttata atggatcata agttgaatac 60
 ttactatttc catgcatgtg gaagcttctn tgtcttgta tagtagcagg caaggcaatg 120
 atacaaatct tctagaattt catattttta ttattaatta agacttgatc aatcttacat 180
 taattgaatt taccgtggtg atcatgtgcg tgtatttggc agatctagct agtgaatggt 240
 tataccaaac tgaatgatca aagtgtttta gtaatatcca atagattagt tttatcttta 300
 atatagtcac ccctagactn tattctatca tttgtcttaa attgatatat taatgatcag 360
 tggaatatcg attaacacan aagcatctat ttattgaccc agatcaaatg ctttaggtga 420
 cntngggaat tgctaattaa cctanggttg gaatttcata ggaataaggt tgnngaaaaa 480
 tcggtactat ggagtcataa tctctgatct ct 512

<210> 2946

<211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2946

tcttagtttc agatgatgca gatggggttg tagctacctc atgctctcct ctaatgacta 60
 tggcatcatt tctggcacta aactgctggg agttggaggc catcttctca attaaatttc 120
 tggcttcagc aggagtcag tctccaaggg ctccaccact ggcagcatct atcatacttc 180
 tctccatatt actgagtcct tcataaaaaat attggagaag aagctgttct gaaatctgat 240
 ggtgggggca actggcacat agttttctta atctctccca gtactcatac aggctctctc 300
 cactgagttg tctaatacct gagatatact tctgatggc tgtggtcctg gatgcaggga 360
 aaatnttttc taagaatact ctcttaaggt catcccagct cgtga 405

<210> 2947
 <211> 487
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2947

actaagctta cacatttagc ttcagcaatc aatcattntc tactgcactn tatctaaatt 60
 tcccacactt cacaatccac atacaccatt catgacgaaa gtccaatgtc aaccaactga 120
 gctgaactaa accccttcat taaaaaattg aaagaaaatt tataatcttg ctcaaaaatt 180
 aaggaaatgt ttggtttggt tgttttctat agaaaatgat aatgaaatgt gtttggttgg 240
 atttttaaaa acataggaaa taaccagaaa ataaaaaaa taaaatatta ttacagtggt 300
 tttcagttga aaaaacagaa atctcattct ggataaaatg aaattgtgat gacaatcaat 360
 ataatttcaa gcaaatctaa aaatataaaa agacaagaag tcaatatatc atacacnttt 420
 taatatttta tttcataaan acagaaaacg agaagtcaaa tcanacatat tttcagaatt 480
 ataatct 487

<210> 2948
 <211> 485
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 2948

caatgccaaa natcattaat atatatgata tatattntat agaattgtga gatntatcaa 60
ttttcaatac aaagtaatgt aatatacatt ttacataaat gacatcttta gctctccact 120
taatgttttt ccaaaagcgt agttcattta ttattatagg taattcttta taaacactgt 180
ctacactagt taaatataaa tatctatttg tagaagaaaa aaaatataaa tctcaaagag 240
agagacaaga agataagaaa gaatataaaa taagatgatt gatgtgtgat ggaaaaaaat 300
aatgaatttt tttatgaata atataattca ataacatata catgtgtttc ccctgtgaaa 360
atagatatat tcccgtaaat ccttaggtgt tagcatgatg tatttnntat gaacactaat 420
tgtttttgng atgattacag atatgncaaa ctgatctgga atttaagctt aacatgatga 480
gtgat 485

<210> 2949
<211> 348
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2949

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gacatccttt anaaaagtta tngncatttg tatttgctga gagcatcaac attcaatttc 120
gagcgtgtcg atatattacg ggactcaatc ggacatccga gtaaaaagtt attgtcgttt 180
gaatatgctc agagcattgg gattcaattt tgagcgtctc aatatattac aggagtcaat 240
cagacatccg agtaaaaagt tattgtcggt tgaatttgct cagagcttcc ggattcaatc 300
tcaagcgtgt cgatatatta caggactcaa tcagacatcc gagttaaa 348

<210> 2950
<211> 418
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2950

agctngagat atcctggctt tgccacaatc catatgagtt gatcacttct tgatgtagct 60
ccatgtggag cttgtaggcc ttgatcttc ttcatcaatg gattcctttg attcttgaat 120

atcaatgtta gcggaatgga gaaggaagaa agatgattgg agatgccaca tcaaggataa 180
 gatgagtcag tcaagaagaa gtcaccacc atatgaagcc atagattaga gcttggaggt 240
 aggagaagat gagtggaggg agagaaggag' aagaagcacg aaattttgtg cctcanatga 300
 ggtctgaact ttgaagtgtg attctcaaatt gatcaaagtt gaaaaaatgc acacacatgg 360
 cctctattta tagcctaact atcacacaaa attggagggg aaattgaatt tctattca 418

<210> 2951
 <211> 484
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2951

gctcgagatg aggaagtgtc aaagccttct ctagatggat tatgccagag acatatttgt 60
 agatctgaag tccagatact ctcgaggaga ttatttgaga atctttgatc tgcaattcgt 120
 caaggtgatt gctcaattac tgattatttc acaaagttaa gaataatttg ggatgaactt 180
 gaaaattata gacctaatgc tacttccaca tgtgtaaata aatgtacatg tgatgctctc 240
 ctatgtgtta tagaaagaaa aacacaagat catattatgc aatntttgag aggattaaat 300
 gatcaattca ttaatgttag gtctcacaat ttaatgatgg atccactgcg tataatttac 360
 acaaactttt cctacatcgt gcaacaagaa agacatnata tggggatgaa tcatattgga 420
 acattagaat cctaggatat catgnataat gcagcaagtt ctacatctaa tcatagatgt 480
 tctt 484

<210> 2952
 <211> 404
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2952

tctgttgtca atttcgagcg tctcgatatt ntacggtgtt ctatctgata tccaagttaa 60
 aagttattgt cgtgtgattg ttctaagagc ttcccttttc aattacgagc gtctcgatat 120
 attacgggac acaatcggac acccgagtta aaagctattg tcgtttgaat ttgctcagag 180
 cttctatttt caattacgag cgtctcgata tattacggga ctcaatcgga catccgagta 240

aaaagttatt gtcgtttgaa tttgctcaga gcttctgttt tcaatttcga gcgtctcgat 300
 atactacggg acacaatcgg acatccgagc taaaagttat tggccgttga atttgctcag 360
 agcttctatt ttcaattacg agcgtttcga ttactacggg actc 404

<210> 2953
 <211> 221
 <212> DNA
 <213> Glycine max

<400> 2953

tctctaagtg acctgaggct gcagcttaac atagaccact tcaggttatg aacttcttac 60
 atggacttga tggggcctat gcaagttgaa agccgtggag gaaagaggta tgcctatggt 120
 ggtgtggatg atttcttcag atttacctgg gtcaacttta tcagagagaa atcagaaacc 180
 tttgaagtat tcaaagagtt gagtctaaga cttcaaagag a 221

<210> 2954
 <211> 246
 <212> DNA
 <213> Glycine max

<400> 2954

ctcggatgtc cgattcaggc gcataatata tctttacact tgtatttgaa taacagaagc 60
 tctcgagaaa ttcgaaatggt cataactttt cacacggatg tccgattcgg gcgcataata 120
 tgtcgagacg ctcgcagatt aacaacggaa gctctcgaga aattccaatg gtcctaactt 180
 ttactcggga ggaccgattc aggcgcataa tatattgaga cgctcgaaat tgaacaacgg 240
 aagctc 246

<210> 2955
 <211> 197
 <212> DNA
 <213> Glycine max

<400> 2955

gcttctcgat acattatgcg cctaaattgg acattctatg ttaaggttat gacaatctga 60
 attgctctag agattccatt gttcaatatc gagcgtctcg atatattatg aatgtgaatc 120
 ggacctccgc gttaaaagct atgaccattt gaatttctcg agagctgtcg atgttcaatg 180

tacagcgttt ctatata

197

<210> 2956
<211> 416
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2956

tcaattntca attcggagcg tctcgatata ttacaagact caattggaca tcctttgata 60
atgttatagc cgntggaatt tgctacgagc ttccgntttc aatcttgagc atctagatat 120
attttgggac acaaccggac atccgagtat taagacattg tcgtttgaat ttgctcagag 180
cttcgattct aaattttgag cgtctcgata tattacggga ctctatcgga catccgagat 240
aaagttattg tcgtttgaat tttctgcaag ctccggtttt caatttgag cgtctcgata 300
tatnacagga ctcaaccgga catctgtgta tatagtaatt gtcgtctcaa tttgctcaga 360
gcttctagtc tcaagtttga gcgtctcgat atattaccag acttatatat acatcc 416

<210> 2957
<211> 279
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2957

agcttctagt ctncaatttg agcgtctcga tatattacgg gactcaaccg gacatccgng 60
tataaagtta ttgtcatttc aatttgctca gagcttctag tctcaatttt gagcgtctcg 120
atatattacc cgattcaatc ggacatccgt gtataaagtt attgtcaatt caattccatt 180
agaggttcag gacctaatTT tgagcggcta gatataccta ccgacttaac ctgacttacg 240
tgtatcatag ttggcgtatt cgaatttgct ccgagcttc 279

<210> 2958
<211> 274
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2958

agcttgaacc catgtgcaat gtcgggtcatc ctantcccca agaaagatgg cacgtggagg 60
 atgtacatag attgtagacc catcaacaac atcattatga ggtatagaca tcctatccct 120
 agactaatga tatgttggat gaacttcatg gttcttgtgt cttctccaac atagatttga 180
 aaagtgatta ccatcaaatt acaatgagag aaggtgatga atggaaattt gtttctaaac 240
 taaagttgga cttatgaatg gttgggtcatg cctt 274

<210> 2959
 <211> 491
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2959

gaccatagaa actaagcttc aaaatatggc ctcatcaata tactagtntc ccgaaggata 60
 ttctataaat agacctccca tctttaatgg agtgagttac cactactgga aaacccgcat 120
 gcaaattctt atagaggcaa tagatctaaa tatctgggaa gccatagaac aaggacctta 180
 tgttgccctc ataatagccg gaagtgaac aatagaaaaa cctaaagcaa attggactga 240
 agaagaaaga agattagtac aatataattt ataggccaaa aatattatga catctgcctt 300
 atgtatagat gaatacttta tggtttcaaa ttgtaaaagt gctaaagata tgtgggatac 360
 actacaagta acacatgaag gcacaacaga tgtgtaaaga tctacgatat acactctaac 420
 gcgtgagtat gaactctcta tgatgaatgt anatgaaagt atacaagaca tgcataagaa 480
 gttcacacac a 491

<210> 2960
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2960

ggatcttaag tcacctgagg ctgcagcttc atagaaagtt cgctcctaata ttctctacaa 60
 ttgcatcacc tctcaatgag ctagttaaaga agaattgtggc atttacctgt ggtgaaaaac 120
 aagagcaagc ctttgctgtg ctcaaagaaa agcttactaa ggcacctgtt ctactcttc 180
 ctgacttttc taaaactttt gagcttgaat gtgatgcctc tggagtggga gatggagctg 240

ttttgttaca acgtgggcac ccaattgctt attttagtga aaaaattcat ggtgccaccc 300
 ttaactaccc cacctatgat aaagagatgt atgccttaat aagagcactc cgaactttgg 360
 aacattacct tgtttccaag gaatngtcat tcatagtcat catcaatcac ttaagttcat 420
 t 421

<210> 2961
 <211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2961

ctgctctatt caagctctcc caanatctag aggtaatcct atgatctcta tcagacacta 60
 tgctagatga cacaccatgt aacctaaaca tctgactaat atacaggag gtcaactttt 120
 ccaaagatgg ataggcaa at ggtacttatt cttaaccgtc accttattca actagcggta 180
 gtctacacac aacctcatgg tcccatcttt cttcttcact aacaacactg gtgctcccca 240
 tggagacaca ctgggtctca caaactgctt ctctaactgg ttcttaagct cggctaactc 300
 tataagatac atcctataag gggctatgga tacagggtcca accncaggta ctaagtcttt 360
 ggaaaactct atctctctct cgggtggcag accagatata tcctcaggaa actctntgac 420
 aacagggaga gcacccatgg aaacct 446

<210> 2962
 <211> 352
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2962

tgtctatttt gggcattccg gctccacca ttctggtctt tcttgggtcg tgaacaatct 60
 ctcttagggt gtcccttttt tncacaatta aaacatgtta tgcctatata gggacaattc 120
 gaggagatgt gccctggctt accacacttg taacaaatga tatgagtgga gaacgtattg 180
 gggttgctac cggtaccacc tgcaaatccc ctatcaacag tcctctgatt gtcattggcg 240
 ntaccatatt gcttaagagg aatcaaatat gggtttcttc gatgttgaag cccattcttt 300
 ttgttctca ttggacctgt actcttatag taagccgccc tgtctcgga gt 352

<210> 2963
 <211> 399
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2963

tgcatgatgc atngaaattc ttatggtagat tgtgtatgat ctggataagc taatgatgaa 60
 atggcggttac tattaatctt attggtagat attttatgta ccaattctgt tcaaattggaa 120
 aggagatgta gtttttttgt ttgtaatagt taatatgttg gtttgataga cttggatgat 180
 gctacctcaa gtatgaggtt ctttnttgtt ntagattagt ttatatcatc tgggtgatttc 240
 agnttatatt attaatatat ttgtaggact accaactata ttaacgttag attaaaaatt 300
 aagccaaatt atatattaag gccttggtta gcctattata gaagggtgtgt tattttatttt 360
 ctggttaaaaa caactatcan aggaatatta aagggtttat 399

<210> 2964
 <211> 428
 <212> DNA
 <213> Glycine max
 <400> 2964

agcttctcaa agatgtactt aaccaggtcc atcttgata tcaaccaggt ggtatggctc 60
 agcatgtatt gtcttagacg gtgggacgcc cagactaaag cacaacacgt tctttcgagc 120
 agggagtagt tcatttcata ggccgtgaac tttttactca agtagtagac agcgcgttct 180
 ctcttcccg actcgtcatg ttgccccaac atacatccaa tcgactcatc caaaatcatc 240
 atatacaaga tgagaggcct tcctggtacc aacgacataa gcacgagagg gttcatgaga 300
 cactgtttga tccttccaaa cgctcttga caatcctcat tccaacggac ggattggttt 360
 tgcgtaagaa gtggaataac ggctcacaat tagcggtagag ttgtgatatg aatctggcaa 420
 tataattc 428

<210> 2965
 <211> 431
 <212> DNA
 <213> Glycine max
 <400> 2965

agcttctaaa ctttatacaa gaatgaagct ctgatatcac ttgttggaca agtggcctca 60
attatcttaa tagggggggt tgaattaaga tacacaaact attcccaatt aaaatttaac 120
cctttttttg gattaacact gcacccttaa tatgaattac tgaaaagaca actcaaaatg 180
aacttctttt atgaaaaaga taaattgaaa taaataatag aagtttaagg gaagagagaa 240
tgcatactca gattctatac tagttcggcc acgttctgtg ctaacgttca gtccccaagc 300
aaccgccttg agatttccac tatcttggtg aagaactttt acaaactgtg aaccacacag 360
ggacccttc tcttgtgttc agatatgctt acaacttaag agacccttgg tcttctaaac 420
agatctcttt g 431

<210> 2966
<211> 431
<212> DNA
<213> Glycine max

<400> 2966

tcttagtttc agatgatgca gatggggttg tagctacctc atgcactcct ctaatgacta 60
tggcatcatt tctggcgcta aactgctgtg agttggaagc catcttctca attaataattc 120
tggcttcagc aagagtcatg tctccaaagg ctccaccact ggcagcatct atcatacttc 180
tctccatatt actgagtcct tcataaaaat attggagaag aagctactcc gaaatctgat 240
ggaggaggca actggcatat agtcttttaa atctctccca gtactcatac aggctctctc 300
cactgagttg tctaatacct gagatatact tcttgatggc tgtggtcctg gaagcacgga 360
caatttcttt ctaagaatac tctcttaaag tcatctcagc ttgtgatgga ccttggagca 420
aggtaataca g 431

<210> 2967
<211> 402
<212> DNA
<213> Glycine max

<400> 2967

agcttcttat tatcaacaga tgaagatgaa tccgtggcca catcatagac tcctctaagg 60
acaatagcat catttcttgc actgaattgt taggagttgg aagccatctt ctcatcaga 120
ttcctagcct caacaagagt catatcacca agagctccac cactggcagc atcaatcatg 180

ctcctctcca tgttgctaag tccctcatag aaatattgca aaaggagttg ctcagaaatc 240
 tggtggtgag gacagcttgc acacaatttc ttgaatcttt cccagtactc atacaagctc 300
 tctccactaa gttgcctgat gcctgaaatg tcttttctga tggcagtggt cctagatgta 360
 ggaagatatt ctccaagaac accctcttaa gtcaccccaa ct 402

<210> 2968
 <211> 389
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2968

cactgctcag tctgattggc tcacaccctt tcattggaat ggatcatcaa gattcataca 60
 cgcatttgct taccttcttg gagttgtgta gtaccatggg agcttttggc aaaaatgcta 120
 aagttgtcta cctcaaagct ttcccattct ccttggcagg taaagcaaag acatggctcc 180
 aatcacatct aaacaaatgc ctcaacgctt gggaagaggt ggtagaaaac atcattgcaa 240
 agttctttcc tctatccaga ttcatcaaga tccattgcta ctttntccca aagatctgat 300
 gaacctctct gtgaaacatg ggagagattc aagtctttgt tgcagaggtg cctataccat 360
 agtnttgatg atgttgaca actacatat 389

<210> 2969
 <211> 482
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2969

agcttagcct tggttgtaat tatgttgctt atgtagctcc ccttatctct aacattagag 60
 acttaagaaa taagtttaat ggagatatat gtgtcgatag cataaaatta tttagaattg 120
 tcaatcaatt acaaatcagt tttgtatgat tttaaagata attattataa aatgataaac 180
 gtatcacata taatgagttg gaattggata acgatgtaag aacgttttac tattgtcaat 240
 acatgaccta tttttttaga tgaaatttga ataaacttct tcaaaaacac ttatagaaaa 300
 agaaaataag atgatgaaat atataagttt ctatataaga ttttttttg tctagacaac 360
 aagtatcttc aattagagac aatcttggtc gagtaagata gaactactat gaacaacaca 420

actcttctct caagtattta gtgtatttgc anacggaaga tttaaactcg agatctctta 480
at 482

<210> 2970
<211> 366
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2970

ntgaagcagg agttagagca tatgttatta attcatgac ttcttggctc tcatgaatat 60
caaattattcc attgtgtgcc aaacagcgca tgatccgctg cacaaaacaa gccttatccg 120
ctgcaatctg tagagttgag accaactcac gaagagtaat gggtttgaca tggttgtgta 180
tcatgtctgg aatacctagt tgcacaacc atttaagaca catagatgtt aggctaccat 240
atagctgcat gtacaaaagg ttntggccct caaagagctc aattgcttct tggttattca 300
ttgaagccat tattgcaagc gatatttaat ntgcttaaac tcgttcgctt ttttccatga 360
ctagca 366

<210> 2971
<211> 433
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2971

agctntagat gcctttaaag gttttaaggc tgaagttgag aaacaatgtg gaaaacaaat 60
taagatcgtg agatcagata gaggtgggga gtactatggt agatacacag aggatggaca 120
agcaccaggt tcatttgcaa aatttcttca agaacatggg attgttgccc aatacactat 180
gcctggttct ccggatcaga atggtgtggc agaacgaaga aatngaacct tattagacat 240
ggtgagatgc atgaggagta atgtaaagct tcctcaattt tttgtggatt gatgctctta 300
agacggttgc gtatatatta aaccgagttc caaccaaggc tgtctcaaag acacctttna 360
gttattgaag ggttggaac caagtttgcg atatataneg cgttggggat gcccgctctga 420
agtaagaatt tat 433

<210> 2972
 <211> 456
 <212> DNA
 <213> Glycine max

<400> 2972

ggatcctcta agcaccgagg ctgcagctta agacaacctt ctctactgtt ggctacttca 60
 acttcaactt cagacaacta tttgtctaata gtagctcctg ttgtcaataa aaatgttagt 120
 gtagcttcga attctgtaat ctcatctect aacaatgcta gtctttggca tgctagggtta 180
 ggtcatccta atagtcatgt catgaagcta gtattcaatc attgtaatat ttcttcatct 240
 aataaattct ttcagacttt tgctccttat gctgtatggg aaagtctcag attgtctcat 300
 agattgctat ctaacacctc tactttctgtt taatctcctt tggaacttgt ctacacaggt 360
 ttgtggagac cttctcattt gacatctatg ttggttttta atactatgtg ccctttattg 420
 atgcattttc tagatacact tggatatttc ctatta 456

<210> 2973
 <211> 458
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2973

tctggtggga catcttgact tgctttccaa tctaacattc accacagatt ctgccttctt 60
 ctattntcag attgggaatg cctctaacag cacctttgtc aatgattntc ttcatgcctc 120
 ttaagtgcag atgtccaaat ctttgatgcc atattttgac ttcattcttct ttggagaata 180
 gacatgtgga ggagtaactg gtttcttgag gtgtccatat gtaacagttg tcctttgatc 240
 tgctgccctt cattaagact tcaactcttct catttgtcac caagcattct gactttgtga 300
 agttacattg aatccttcat cacacaactg actgatgctg atcaagttcg cagtcagtcc 360
 cttcaccagc agtactttgt tcagactaag aagtccatca tggactatct ntccattcc 420
 agtgatecnt cctttagagc catctccaaa tgtcacat 458

<210> 2974
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 2974

tccagaagca tttcattatc aagataatac tattaacaaa accccacact ttccttcaca 60
aagaaaggcg aaagaaagga agaaaaccaa aaactttcca caagtaaaac aggcatacaa 120
cactgatcaa taggataatc agataaaaac ttactgaaat tgtgattact ccctctttgc 180
caactttctc catagctttt gcaatcaact caccaatttc tctctctcca ttagcagata 240
tcaccccaac ctatcaattc aaattcaaaa ttcaaaaaca gaaattaaag ttaaaaccca 300
gaatccttat tatcatctcc tgcaatatac aagaagaggc tctagcaaag tatgatcgac 360
aaacctgcgc tatttcttca gatgtgctaa tcactctagc tcttgctttc aaatntgtga 420
ccacagcatc gacagccata cttatacc 448

<210> 2975
<211> 427
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2975

agctntagca cttctgtagg gtttcacggc tttccatcag ctcagataaa tctgccatat 60
actcagtcgg tattaggcct catgagcttt ctcatattta gcatcttact ggatttagct 120
tgggtggcct ccctttttaga tacttgggtg ttcccttttt atcatttaga ttaaatgtat 180
gccactatgc tccattgatt ccaagattac tggcctgatt cacggatgga gcacgaagct 240
ctatcttatg caagtaagct agagttgatc agagcagtta ttcaaggaat tgtgaatttt 300
tggatggaga attttccttt gcctcaatct gttctggacc gaatcaatgc ttctgcccgt 360
aatttctgtg gagcaaagcg gatattaggc aaaacaagcc cttggttgct tgatcagtag 420
tttgttc 427

<210> 2976
<211> 256
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2976

tcacagcacc tttgtcaatg attntcttca tgctcttaa gtgcagatgt ccaaattctt 60

gatgccatat tttgacttca ttttcttttg aggacagaca tgtggaggag taactgggtt 120
 cttgaggtgt ccataggtaa cagttgtcct ttgatctgct gcccttcatt agaacttcac 180
 tcttctcatt tgtcaccaag cattctgact ttgtgaagtt acattgaatc ttcacacac 240
 aactgactga tgctga 256

<210> 2977
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2977

tcatacttca caaaatatat atatgtatgg ttaggtagaa tgataccttg gatatgcatg 60
 tatgtaacaa aaaaatactt cacaaaatat atatatgtat gtttaggtag aaagatacct 120
 tggatatgca tgtatgtaac aaaaaaatac ttcacaaaat atacatgtat gtttaggtag 180
 caagatacct tggatatgca tgtatatagc aaatatatct cacaaaatat atatatgtat 240
 gtttaggtag caagatacct tggacacgca tgtatatagc aaaatacctc acaaaaatat 300
 acatatgttt aggtagcana atacctcatg gaaaaagaag gaatgaaaa agaaaataat 360
 aagaataaaa agttgtctag ctaanaaata acatgctcgt gagaatagat 410

<210> 2978
 <211> 404
 <212> DNA
 <213> Glycine max

<400> 2978

agcttcaaca ttcaatatcg agcgttttga tatattacgg gactgaatca gacatccgag 60
 tgaaaagtta ctgtagtttg aagttgctca gagctaagtc attcaagtcc gagcgtctcg 120
 atatactacg agactcaatc agacatccta gtaaaaagtt attgtcgttt gaattagctc 180
 aaagcttctg tattcagctt cgagcctctc gatatattac aggactccat cagacacccg 240
 agtaaaaaag ttattgtcgt ttgaattttc tcagagcttc aacattcaat ttcaagcgtt 300
 ccgatatttt acaggactca atcggatagc cgagcaaaag atattggtgt tgaattgctc 360
 agagcttcgg tattcaattc cgagtgtctc gatatatgac ggga 404

<210> 2979
 <211> 482
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 2979

taggacctat gatactcagc ttaacatcag accacgacca gggtgctgga actacttcac 60
 atgggtcttga tggggcctat gcaagttgaa agccttggag gaaagaggta tgcttatgtt 120
 gttgaggatg atttctccag atttacctga gtcaacttta tcagagaaaa atcagacacc 180
 tttgaagtat tcaaggagtt gagcctaaga cttcaaagag aaaaagactg tgccatcaag 240
 agaatcagga gtgaccatgg cagagagttt gaaaacagca ggttcactga attctgcact 300
 tctgaaggca tcaactcatga gttctctgca gccattacac cacaacaaaa tggcatagtt 360
 gaaaggaaaa acaggactnt acaagaggct gctaggggtca tgcttcatag ccaaagaact 420
 tcctataatc tctgggctga agccatgaac acagcatgct acattcaca cagagtcaca 480
 ct 482

<210> 2980
 <211> 445
 <212> DNA
 <213> Glycine max

 <400> 2980

agctttgaat tctcatagta gtttcgtttc aaacttcaga ggttctaaaa tctagtcgta 60
 tcatatattt ctctgcaaga caaataaatt atctatgatt ctgaaatgta tgcagcataa 120
 ggttgatgac taggtgtcca tgaatgacca caaattaatg atctagattg cggttggact 180
 ttcacgtagg aaaagtcact ttaaattcaa agaaaatata agcttattat ccttaggact 240
 gatttaccaa tctttaggac taatttatta taacagaata gaaaataaga tatttaccta 300
 attttataat attatctaata tatagttgca tgataaattt attaatttcg tataatttagc 360
 tcacaaatcg tcttacagtt gttttaaatt gataataaga tattgtattt taccataaca 420
 atatataatc attaaactca attaa 445

<210> 2981
 <211> 335

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 2981

 agcttctaaa cntatatacaa gaatgaagct ctgataccac ttgttggaca agtggcctca 60
 gatattcttaa gaagggggggg ggggtgaatt aagatatcac aacttatttc gccattaca 120
 aattctattt atctttctat ttcagctata aattccctta ataattgagtt tcttagatat 180
 tgattccaat agaacagatt gaatatgaat ataaaacact aataaataac agagttaaag 240
 ggaagagaaa atgaacactc agatttatac tggttcggcc acacccttgt gcctacgtcc 300
 aggccccaag ctacccgcta gagaggtcca ctatc 335

<210> 2982
 <211> 329
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 2982

 tgcaagcttt tgcaagctgg aatcattcat cctatctctg agcgtcaatg ggtgagctcc 60
 gactaagtag tcccgaacaa gactcgctc acagtgatca gaaatgatat ggaggagctg 120
 attcctactc tggcgcagaa tagttggaca gtctgcattg actataggag gctgcacctg 180
 gttacaaaaa aggaccattg tcccctgcct ttctttgacc agatcgcttg aacgcttggc 240
 aggtaaatcc tactactgtt accttgatgg tctctctgga tatatgcaaa ttactatcgc 300
 tcctgaggat cagganaaga ccacattca 329

<210> 2983
 <211> 456
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 2983

 agcttggaaa gggaggcttt gggtatggct cctattntc actgtcaatg atggacagac 60
 actaccatag tggaatgtca gttgaagaag cagttgatct cggttgataag tgcattatgg 120
 agatcagatc caggctcggt gttgcaccac cgaactttgt tattaaaatt gtggacaagg 180

<211> 455
 <212> DNA
 <213> Glycine max

<400> 2986

agcttgtttg ctacatccaa gtataaatga tttgatatta taagtataaa cctattcaaa 60
 acttctgttc aaaatattaa aataacttta cttgaaattt tgaacctctg cacttgtttt 120
 taattagcta attccaatct tctggagata tgtatttttg tttgtttata tttttcttta 180
 agatgagctt catgtaaag ataaacctta ttcttgtatt gagattcaat ttgctctatt 240
 acacattggt tgacctaatc agataaacta aaaccatcct tatgtcatat gttttcatgg 300
 aaaagtaaaa atttattact atgaacatac attgtaaaaa aaaattggca aacataagta 360
 atattcaaat atataaataa atgagatata attcacctaa ttatatagta accttcatat 420
 gtcgccacat ttgatgtaca tcatgtgac taatt 455

<210> 2987
 <211> 432
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2987

agctntaaac attcaatttg agcgtctcga tatattacgg gactcaatca gacatccgag 60
 taaaaagtta ttgtcgtttg aattggctca gagcttcaac attcaatttc gagggctctg 120
 atatatgacg ggactcaatc agacatccga gtaaaaagtt attgtcgttt gaattggctc 180
 agagcttcaa cattcaattt cgagggctctc gatattattgc gggactcaat cagacatccg 240
 agtaaaaagt tattgtcgtt tgaattggct cagagcttca acattcaatt tcgagcgtct 300
 cggatatatga cgggactcaa tcagacatcc gagtaaaacg ttattgtcgt ttgaattggc 360
 tcagagcttc aacattcata ttcgagcgtc tcgatattatt acgggactca atcagacatc 420
 cgagtaaaaa gt 432

<210> 2988
 <211> 266
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 2988

ccttcacccg acgaagacac tgacaaaaaac ttatcttctc cttcttggac aaagtatggc 60
agggctgggg caagtaaatt ttcttcccat cagaccttgg atgcaactgt gatcgtatac 120
ccatatcagc tagatcttga aggggtattca agccatcctt cgtcttgcct tgaatgttaa 180
nggagcgtcc aatgacacta tcacnagaca tttntccac atgcataaca tcaatacaat 240
gtctaacgtc aagatcacac cagtac 266

<210> 2989

<211> 434

<212> DNA

<213> Glycine max

<400> 2989

agcttatgct gcacacattt attatagttc ttcacagcaa ctaaaccaac aacagcgaaa 60
tacttatgac ctttctagca acagatacaa tccaggttgg aggaatcatc caaatctgag 120
atggacaagc cctccacaac aataacagca tgtccctcct tttcagaatg ttgctgggtcc 180
aagcaagcca tatgttctc ctccaatgca gcatcaaaa caacgacaac gacgacagtc 240
acaacaaaga caacaagcaa ctgaggctcc tcctcaacct tccttagaag agttagtgag 300
gcaaatgacc atccagaata tgcaatttca tcaagagaca agagcctcca ttcagagttt 360
gacaaatcag atggggctga tggctactca gatgaaccaa gctcagtcct agaattctaa 420
caaatttcct tcac 434

<210> 2990

<211> 454

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2990

agcttggttc ccaactcana gctcttctca agggcttcca cttgttccat gttaagcctc 60
cttttcttct ctccagcctg tgatccatca tcagacaaat ctctctcagc attagcttct 120
tctccaagct caatccctga aatgacata gatctcttgc ctagaaagga tgctcctcct 180
gcatcaacat ttgaaacatt ggtattagga cacataacat aatattgcac tattgggttg 240
tgtttttgtg tctaaaagag agtaccatgg tactcttgag gtgcacatga agttataatt 300

gagttgagtg aaggtggagg ttgatgggtca tcttggtgag gtgtttgtag catgaaatnt 360
gctgggaaga aagccatatc attgctagtc tatgcttgcc tctgatcttc aattgctgaa 420
tgatattctg atcaccatgt gnatgctgat gctc 454

<210> 2991
<211> 449
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2991

agcttgacag anatctgcag ccgaaccacc tgtttctntt cctgcattcc acccaccttg 60
atcattacct tttccctggt tatcatgtga tgaagagact ggagcattcc aattgttttt 120
tgttccccag ccagatgacc cactcccatc cttagttggt tggcttttcc acccaacatc 180
ctgattagca tcaatatctg aagtaccatc agggtttcca acttctttga ctccactttt 240
aaaaccattg ccaccacccc atccaattga tgacgtttga tttgactttt tgacactggt 300
ccaaccagaa gactcctctt cagaagcctt ggttgtattc caattgcttt tgctgtccct 360
tgctgaggat tgatttccat tcaaattggt aggtttgtca ttccaattgc tattctgatt 420
gccatcacc atgcttccag ttntatgct 449

<210> 2992
<211> 316
<212> DNA
<213> Glycine max

<400> 2992

agcttcagaa ttcaatttcg agcgtctcaa tatattacgg gactcaatca gacatccgag 60
caaaacgtta ttgtcgtttg gattagttca gagcttcaga attcaatttc gatcgtctcg 120
atatattacg ggtctcaatc agacatctga ggataaaagt tattggcggt tgaatttgct 180
gagagcttca acattcaatt ttgagcgtgt cgatgtatta cgggacttaa tcagacattc 240
gagatataag ctattgctgc ttgaatttgc tgagagcttc aacattcatt tcgagtcgtc 300
ctttatttta cgggac 316

<210> 2993

<211> 396
 <212> DNA
 <213> Glycine max

<400> 2993

agcttgaaat tgaacaaccg aagctctcca gatattcaaa tggttatgac ctatcacacg 60
 aaagactgat tcatgcgcat aatatatcga gacgctcgaa attgaacaac ggaagctctc 120
 cagaaattca aatggtcata acttttcaaa tggaagtccg attcatgcgc ataatatatc 180
 gcgaagcttg aaattgagca acagaagctc tcgagaaatt cgaacgggtca taacttatca 240
 cactgaagtc cgattgaagc gcataatata tcgagaggct cgaaattgaa caacggaagc 300
 tctcgagaaa ttcaaattggc cataacttgt caaacggaag tccgattctg gcgcatacta 360
 tatcgagaag cttgaaatgg aacaacagaa gctctc 396

<210> 2994
 <211> 449
 <212> DNA
 <213> Glycine max

<400> 2994

agcttgtagt ggtccttgaa gttgttttat cgtcatgggt tctaaatctt tggtttcctc 60
 gattgtcaca acaatgtgtt caaatttggg atctaacaag cgtagtatat tctccataat 120
 ttttacatct tctaacttct caccatttct ttttagttga tttgaaacaa cgagaattct 180
 tgagaaataa ttgaaaatgg actctaactc tttcatatgt aaggattcaa actcacctag 240
 taaagtttgg agacacacct tctttactct gtcttctcct ttgtgggagg attgaagctt 300
 atcccatgcc tccttagcag atgttgcatc agaaatcttc tcgaacacat catcatctaa 360
 tgcttgatag ataggaagag agctttcttg tctctcttct ttgaatcctt taaagactcc 420
 ttttgtgcct cggatagtga agtctcatc 449

<210> 2995
 <211> 341
 <212> DNA
 <213> Glycine max

<400> 2995

gcttcaatct gatcactaag atgatgcaat cttattccgc aagggcattg ggtataagac 60

tccaacttga tggggcttca gatccaaggg aaagccctag ggatctcatg agccttaagg 120
tagatatcca gcccatgggc taatgatgag cccgcttata tttgtaaata ttacaatacg 180
tgctttcttc agctgggcct tgtattgctg agcactctag aactatatgg ctttagcctt 240
gtatttcggc gcattcttag tagtcattgg agtaaagact tttttctgta ttttcatgtc 300
ttttgccatg ggggtgagct tagctaatat tgtgggtgtg t 341

<210> 2996
<211> 313
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2996

ctcggatgtc tgattgagtc ccgcaatata tcgagacgct cgaaatggaa taccgaagct 60
ctgagcaaat tcaaacgaca ataactctnt actcggatgt cagattgagt cccgtaatat 120
atcgagacgc tcgaaatgga ataccgaagc tctgaacaaa ttcaaacgac aataacattt 180
tactcggatg tctgattgag tcccgaatat atcgagacgc tcgaaattga ataccgaagc 240
tctgagcaaa ttcaaacgac gaatcacttt tactcggatg tctgattgag tcccgtaata 300
tatcgagacg ctc 313

<210> 2997
<211> 426
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2997

agcttctaca ttcaatttcg agcttttcga tatattacgg gactcaatcg gacatccgag 60
taaaaagtta ttgtagattg aatttgctca tggcttcggt attccatttc gagcgtctcg 120
atatattacg ggactcaatc ggacatccga gtaaaaagtt attgttgttt gaatttgctc 180
agagcttcgg tattccattt cgagcatctc gatataattac gggactcaat cagacatccg 240
agtaaaaagt tattgtcggt tgaatttgct canggcttcg gtattccatt tcgagcgtct 300
cgatgtatta cgggactcaa tcagacatcc gagtaaaaag ttattggctg ttgaatttgc 360
tcagagcttc tacattcaat ttcgagcgtt tcgatatatt acgggactca atcagacatc 420

1286

cgagta

426

<210> 2998
<211> 451
<212> DNA
<213> Glycine max

<400> 2998

agctgtgtat ggtagagatc cacctactct ggtgagatat caaccagaca tctactgatgt 60
tccaactgtg taggagcaat tgactgctag agatgaattt ttgagacaat tgcaggataa 120
tttgatgaag gcttatacat atatgaagaa tcaggctgat aagaaaagtc aagatgtcaa 180
tctacagggtg ggagacttgg ttctagttaa actactacca taaaacaac attcagctgc 240
tcttagaaaag aatcataagt tgggaatgca cttctttggc ccctttaaaa ttctggccag 300
agtaagagca gtggcctaca agttagagtt acctgcagaa gctagaatac ataattgtctt 360
ccatgtctct cagctgaagt tgtttaaagg aacaccagga gaacagtact tgcctttacc 420
tttaactaca acagaaagtg gaccaattat t 451

<210> 2999
<211> 452
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2999

caagcttcgg aatgatttc tatacaaaag ttagtcgtat gaagcgacta acaacattca 60
tatccatata ttataagaac aactaatcaa cctttgggtg atccataaat gtcttataat 120
aatgaacttc aattaacca taaaccaata atctataatt tagcatccat tctatgggta 180
attgaaataa aattgtcact aatttggaat taaacaaaac atacagattt gaccactgtg 240
gtgatcacia atctatcata tatttaatcc aaattacttt atccaatttt aaattgaaat 300
tgacgtaagg gagagatatt gaatttcaat tcaagacatt caaaaattgg attcaaggca 360
ttccaaactc gaaaacaatt ataatatgca caacggaaaa tcaaatgggt tgaataattn 420
tccaattgga atcagattca tacaatgtat gg 452

<210> 3000
<211> 369

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 3000

 tttgatggtg actctaattgt aagcaacaat tatgttccca ttaaggctag aggaaatgaa 60
 actntaaccg ggtattcaaa tgctggattn tccagcattc ttactttctc atggatgagt 120
 ccttttagtaa ctctaaggaa tgagaagact ttagagcgtg aggatctccc acatcttget 180
 actaatgaca gtgtggatgg gattttgcaa ctcttcaaac aaacttgagt cagagtgtgg 240
 tagtgtgata acaaccctac ganaatatga nggtactgca cagatgaaca aactatgct 300
 agtgtgataa caacccttct tacnactatc aatcaaccct gcttctagtg tatggttgtg 360
 ataacacta 369

<210> 3001
 <211> 440
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 3001

 agctntntcc tcatgaaaca agtcgaacct gatctgctgg tcttctatgg ccatttatag 60
 tttcctcttc cccatgtcta ccacacggct tactgtagac ataaaaggctc ttccaagaat 120
 tatgggaatg ccaacatctt cttcaatgtc tatcactaca aaaccagctg gaaatatcaa 180
 atgtttgacc ctaacaaaaa tgtctataat cactccatag ggtcttgtga tggagcgatc 240
 agccaactgt aagggtcatac gagtgggcat tatctctaac tctccaagtc accgacacat 300
 ggagagtggc attaaattga tactggctcc caagtcaatg agagtcttgc ctactgtaac 360
 ctcaccaata gaacatggta ttgtgacact acctggatct ttatgcttca atggaaggat 420
 acattgtatg aatgcactgc 440

<210> 3002
 <211> 127
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 3002

tctatcaact	ggagcatatg	tttnctcata	atntatactc	tcttcttgat	tatatcactt	60
ggctactaat	cttgccttat	ttctaataac	tatgccattn	tcatctaatac	tgtttctaaa	120
cacccat						127

<210> 3005
 <211> 457
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 3005

agcttggtgc actagcataa acaaggagtt gagcaactgc ttctggtctt ggggtgcatg 60
 gcaatccttt ggcataaaaa attctaaaac aaaatcagcg gaggcactcc ggagtggaat 120
 gccagagca gcatgcaagc caaacatggt agcatgatgt gccagaggat actccgcctt 180
 gctgaaggaa gtaatgtcat ttgcaaaaaca aggtttggtg gttgtgaaag ctgtcccaac 240
 tactccttgc ccccccaaaa ggtggcactc agagcacgct tccaggaaac ccattagctc 300
 tacatccgcc aaaaaactag cagcatacac agtcgacaca taattcatct catcgtttga 360
 atgcccacat ccaactctntc ctgcttggtg gatgcagga gcccatgtca gagctaaagg 420
 caagttatgc gccttgcata cacacgtcaa aacttgt 457

<210> 3006
 <211> 449
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 3006

agcttcttac atagtccgcc ttgtcttgac cttctttatg cttanaaaca gaaacattag 60
 gcataggcaa aagatcaaga ggagttagtg gattaaaacc ataaacaact tcaaaaggag 120
 aacaattagt ggtgctatga acagctctat tgtaagcaaa ttcaacatgg ggtaacaag 180
 cttcccaagt ttttaagttc ttcctcaaaa ctgtcctaag caaagttccc aaagtcctat 240
 taacaacttc cgtttgccca tcggtttgtg ggtgacaagt ggttgaaaat aacaatttag 300
 tgcccaactt gctccacana gtctccaaa attttttttag gaacttagag tccctatcac 360
 taacaatgct ccttggcaga ccatggagtc tcacaatctc cttgaaaaac aaatcagcca 420
 catgggaagc atcatcaact ntnttacat 449

<210> 3007
 <211> 427
 <212> DNA

<213> Glycine max

<400> 3007

atacttaagt cacctgctgc atcaagcttc tacatgctga atgacctttt atactgatat 60
ggcaaattctc aaggccacat gagttattct tgagggactc acttgccatc agaagaagaa 120
atcctttaag gatgctaadc attatgtgtg ggatgacact cactgggttca agattggagc 180
aaataacttg atcagatggg gtgtcattga agtgggaagcc aagagcattc tttggcattg 240
tgacaattca ccttatgggg gccattttta tggagaaaga actactgcca ttgtctctaa 300
caagtatttt tctggcccat aatactcata gatgcacatt tgtgtgtgaa acaacatgag 360
taataccaaa gaacaagagg aatctcatga acgaatgaga tgcccctgaa caacattatt 420
gaagttg 427

<210> 3008

<211> 351

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3008

gccttcgctg accttctnta tgcttaatta cagaaacatt aggcataaggc aaaagatcaa 60
gaggagttag tgggttaaaa ccataaacia cttcaaaagg agaacaatta gtggtgctat 120
gaacagctct attgtaagca aattcaacat ggggtaaaca agcttcccaa gtttttaagt 180
tcttctcaa aactgtccta agcaaagttc ccaaagtcct attaacaact tccgtttgcc 240
catcggtttg tgggtgacaa gtggttgaaa ataacaatnt agtgcccaac tngctccaca 300
aagtcctcca aaaatggctt aggaacctag agtccctatc actaacaatg c 351

<210> 3009

<211> 371

<212> DNA

<213> Glycine max

<400> 3009

gatctctaag tcatctgagg catgcaagct tctgttatga atttcgagtg tctcgatata 60
ctacaggact taatcggaca ttcgagtaaa aagttattga cattcgaatc cgctcataac 120
attcgttgtc aattacgagc gtctagatat attaaagga ttcattcgga catccgagta 180

aaaagttatt atctttttat tttgctcaga gcttctgggt tcaatttcga gcatctcgat 240
 atattacagg actcaatcgg atatccgagt caaaagttat tggtcggttg atttgctacg 300
 agctctcggt ttcaattacg agcgtcttaa tatgctacgg gacacaatcg gacatccgag 360
 aaaaagttat t 371

<210> 3010
 <211> 266
 <212> DNA
 <213> Glycine max

<400> 3010

tgcatatata gctacagacg tcttgtaatt gatacatagc aacatttgtg ggccatttca 60
 tacactttca tggaatgggc aacaatattt tatatcattc atagacgatt actccaaata 120
 tacataacttg tttcttatat atgaaaagtc acaatatctg gatgtgttta aaacatttaa 180
 acttgaagtt gaaaatcaac tcacacaaaa ataaagagtg tcagatttga ccgtggcggt 240
 aaatactatg acagatatga caattc 266

<210> 3011
 <211> 395
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3011

aagcttattg tatgcgattt accaccacac atgacacaaa aattcatggt tatctagttt 60
 atcaccacct aacagatttt gtttctcaag ttcattgtaat cctctttcac taacatgacc 120
 taatctcaaa tgccagaggt ttgttttata aatcaatgta ttactagcta ccgatgcatg 180
 tccaataata gtggaacctt caagaataaa caagccatta cttntattct tgttaccctt 240
 agctatgatt aaagatccat ttgaaatctt aagaacacca tttggaattc tagttgcata 300
 tcctagatca tcaaacatgt ttatggaaat aagattcctt ttgagctttt gaatgtacct 360
 tacatctttc agtagatact ctctggtatc aaaca 395

<210> 3012
 <211> 305
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3012

tcacagttca atttgagcgt ctctgtaata ttacgggact caatcagaca tccgagtaaa 60
aattcattgt cgtttggatt ggctcagaga ttcaacattc aatttcgagc gtctcaatat 120
attacgggac tcattcagac atccgagtaa aaagttattg ccgtctgaat tctctcagag 180
cttcaacaat caatttcgag cgtgtcgata tattacggga ctcaatcaga catccgagct 240
aaaagttaat agtcgttgaa ttggattaaa cttncacatt caatttcgag cgtcttgata 300
tatta 305

<210> 3013

<211> 321

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3013

agctttctgt tttctacaag caacttaacc tttttntat tcttattgcg catatgctat 60
tccttcgtgg attctcaaca tctccgttac cattgtggac gtcgctgttt gggattcct 120
cacctactat gtcattggat ttgatccaca cggtgggacg caaacaact actttaaca 180
tttaggagca tgcgaatgtt gttgcttcta ctaatatgcc tgctacttat gatgtgactt 240
cttgaattat gcgcaggctc ttcaccccggt acctcgtgct attaattgct agccagacgg 300
cttcgggact attcctaagt a 321

<210> 3014

<211> 361

<212> DNA

<213> Glycine max

<400> 3014

ctctctcaat tgcacaaggc cttaatattt gaagagtatt cttgtggaac cttcaccgca 60
cgaagacact gacaaaaact tatcttctcc ttcttggaac aagtatggca cgctgggggc 120
aagtgaatta tcttcccatc agaccttgga tgcaactgtg atcttatacc catatcagct 180
agatcttgac gggatttcaa gccatccttc gtcttgctt gaatgttaag gagcgtccca 240

atcacactgt cacaacata tttctccaca tgcataacat caatacaatg tctaactgtct 300
 agatcacacc agtccggaag atcaaagaaa atggacctct tcttccatat gcaactctga 360
 c 361

<210> 3015
 <211> 459
 <212> DNA
 <213> Glycine max

<400> 3015

agcttgaccc ttacgagtca gtttagtcaa aggtatagcc atcttggaga aaccttctat 60
 gaatcttcgg taatatcttg ctaaacctag aaaactctta atctcaaaaa cagacttagg 120
 actctcccac ttaagaacaa cttctatctt agagggatcc acagctatac ccccttgaga 180
 tatcacatgc cctaggaaac taactttctc taaccagaac tcacacttgg actacttagc 240
 atagagttgt cggtccttaa gggtagtcaa cacaatctc aaatgttctt catgttctc 300
 tctagtcttg gagtatacca aaatatctgt tatcaatact accacaaaaac tatcaaggta 360
 aggatgaaaa actctattca tgtagtccat acagactcct ggagcattag tcacaccaaa 420
 gggcatgact agatactcat agtgactgta acgcggtct 459

<210> 3016
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3016

agcttcaaga aaaagatggc ctcaagtaaat tccttatttg cggaaggga tttctatcaat 60
 agacctcaa tctttaatgg agagggttac cactactgga aaacctgaat gcaaattttt 120
 atcgaggcaa tagatctaaa tatctgggaa gccataaaaa tagggcctta tatacccacc 180
 acagtagaaa gagtttcaat agatggtagt tcatcaagt aaagcataac catagaaaaa 240
 cctagagata gatggtctga agaggataga aaacgagtac aatacaactt anaagccaaa 300
 aacataataa catctgccct aggaatggat gaatatttca gggtttcaaa tcgtaagaat 360
 gctaaggaaa tgtgggacac ttcttgatta acacatgaac gaacta 406

<210> 3017
 <211> 413
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3017

agctttgctg cnacatttat atagaccct catcagcaaa acctacaaca gcagaataat 60
 tatgaccttt caagcaacat atacaatcca ggttcgagga atcatccaaa tctaagatgg 120
 gcaagtcctc cataacaaca acagcctgtc cctccttttc agaatgctgc tggccaagc 180
 aagccgtatg ttctctctcc aatacagcag cagtcacaac aaagacaaca agcaattaag 240
 gctcctcctc aaccttcctt agaagagtta gtgaggcaaa tgaccatcca gaacatgcaa 300
 ttccagcaag agacaagagc ctccattcag agtctaaca atcagtgggg cagatggcta 360
 ctgagttgaa ccaagctcag tcccaagatt ctgacaaatg gccttcacaa act 413

<210> 3018
 <211> 333
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3018

tacatgacat ctgaattcat gtacagcana tctccatgca ttcttagttg gaacatgggc 60
 gctagagtgg caagggcatc gaccatctga tttcctctc taggaatgcg atgaaatgat 120
 atgtcatcaa agagctccat caatttccta atgtaagcct ggtaaggcac caatttgggg 180
 cgtctggtct ccattttacc cttcaactga tgaattacca atgtcgagtc cctgtatacc 240
 ttgagtaact tgaccctaaa gtcgactact actcgatcc caagggcaca tgccctgtac 300
 tccgctatgt tgtttggtgca tttgaagccc aac 333

<210> 3019
 <211> 406
 <212> DNA
 <213> Glycine max

<400> 3019

agcttaacat tcaatttcga gcgttcgat atattacagg aatcaatcag acatctgaat 60
 aaaaagttgt tgctggttga atccgctcag agctttcgta ttccatttcg agcgtctcgg 120

tatattacac gactcaatca gacatccgag taaaaagtga tcgtcgcttg aatctgctca 180
cagcttcaac attaaatttc gagcggttccg atatattacg ggactcaatt acacatccga 240
gtaaaaagtt attgtcattt gaatttgctc agagctctca tattccattt ctagegtctc 300
gatattac gagactcaat cagacatccg agtaaaaagt tattgccgct tgaatatgct 360
cacggcttcg gataccattt cgagegtctc gatataacg ggactc 406

<210> 3020
<211> 421
<212> DNA
<213> Glycine max

<400> 3020

agcttcttag tttcagatga tgcagatggg tttgtagcta cctcatgtac tcctctaatag 60
actatggcat catttctggc gctaaactgc tgggagttgg aggccatctt ctcaattaaa 120
tttctggctt cagtacgagt catgtctcca agggctccac cactggcagc atctatcata 180
cttctctcca tattactgag tccttcataa aaatattgga gaagaagctg ttctgaaatc 240
tgatgggtggg ggcaactggc acatagtttc ttaaactctt cccagtactc atacaggctc 300
tctccactga gttgtctaata acctgagata tccttcctaa tgctgtgggc ctggaagcag 360
ggaaaattgt ttctaagaat actctcttaa ggtcatccca cctcgtgatg gaccttggag 420
c 421

<210> 3021
<211> 336
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3021

aaattgagaa tggaatgctg ttgatggtag ataacaagtc tgctataagc cttgcatata 60
atcctgttgc tcatggaagg agcaagcaca ttgagactag atttcactac ttaagagatc 120
aagtgtacaa tggaagatgg aggttggatt tttgcagatt tgcagatcaa cttgcagaca 180
ttntgacaaa acctttgaag aaggagaggt ttgaagattt gaggagaaag atgggactta 240
gaagctcaaa tgacatctga attaaggagg agtggttagat aaaaagataa ctcagatgat 300

tagttagtta gttctatcac ttgggtgtgta gttagt

336

<210> 3022
<211> 357
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3022

ntgacanatt cgaacgacaa ttacttntaa ctnggatgct ttattgagtc ccgtaatata 60
tcgagacgct cgaaattgaa tgttgatggt cgctgcaaat tgaaacgaca ataactttct 120
actctgatgt ctgattgagt cccgtaatat atcgagacgc tcgaaattga atcttgatgc 180
tttgagcaaa ttcaaacgac aataactttt tactcggatg tctgattgag tcctgttata 240
tatcgagacg ctcgaaatta atacgaaagc tatgagcata ttaaacgaca aaatttttta 300
ctcggatgct tgagtgagtc tcgaatataa cgacacgctc gaaactgaat gtgatgc 357

<210> 3023
<211> 374
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3023

taataataat aatttctatt attattatta aatgaaaaaa tttcaaaaag aaggagactc 60
aagctaaaaa gataatgcaa ccaattaata tttccaagga aaaaaatggt ttgtaaagat 120
atcttcagac aatttaaata tttttgtttg actatattag tataaatcat ctttaattca 180
tacatttttt aatattatgt tctctttttt tcattttctt ttgatatact ntgtgtttta 240
acgacttgga ttcaatatga ttntgtttat caattatttt tggatttgta cattacttac 300
gaaattgtat aagtttcttt atttttagtta gtatttcact agaattgtaaa atatataatt 360
gatcaaaaca tctt 374

<210> 3024
<211> 353
<212> DNA
<213> Glycine max

<400> 3024

acatgatcac aaaatccttg tttatgtagt gtatcacttc ctaacagata ttgtttatca 60
 agttcatgta atcctctttc actaacatga ccgaatctca aatgccagag ttttggtata 120
 tcaatcaatg tattactagc taccgatgca tgtgcaataa tagtggaaacc ttcaagaata 180
 aacaagccat tactttttatt cttggttacc ttagctatga ttaaagagcc atttgaaatc 240
 ttaagaacac catttggaat tctagttgca tatectagat catcaaacat gtttatggaa 300
 ataagattcc tattgagctt tggaatgtac cttacatttt tcagtagata ctc 353

<210> 3025
 <211> 367
 <212> DNA
 <213> Glycine max

<400> 3025

attgacctga aatgttggtt agtgagagat caaggtgttt ctaaaaattt cttttttccc 60
 atgtcatttg gtatccctcc agacagatga tttctagaca agttcaaaaa ccgcaaagca 120
 gatagcttgg aaatttcaga tggaattgct ccagacagct tattacttga aagggtcaatc 180
 attctcacca atatcagatt gtctctgtac tctaactcat ctcctttggg aactaagaca 240
 agagtttcct tgtagtggtt ataactgaag tcagagccat atgaataact taaagggttg 300
 gcaaagaagt catcttcacc agccattgtc ttcatgtcat ccaaacaatt tggaatggat 360
 cctgaca 367

<210> 3026
 <211> 385
 <212> DNA
 <213> Glycine max

<400> 3026

ctcatggggt atctgtctca acttgagtct ttgctgctaa caccgaccacc gcttttcacg 60
 atatattcct tcaacactgc aaaaatgctc tacaatgaaa ttcatagaca tgggaaataa 120
 ccaactttct gacacaatac cacaatggat gtgggaaatg caatatctaa tgggttcttg 180
 tctaagatcc cacaatttca atggcagtat tactcacaag atgtgtcaac tttcttcctt 240
 tacagtgtg gatcttggca ataacagcct gtcacgatcc attccaaatt gtttggtatga 300
 catgaaaaca atggctggtg aagatgactt ctttgcacac ctttcaagtt attcatatgg 360

ctctgacttt agttataacc actac

385

<210> 3027
<211> 389
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3027

gctaatatat cgagacgatc aanattgaac aacggaagct ctctgatgat taaaatgggc 60
ataagtttta actcggatgt ccgattcagg agcttcacat atcgagatgc acgaaattga 120
acaatggaag ctctagagaa attctaattg tcataaattt tcacacggag gtcctattca 180
ggcgcttaat atatccagac gctcgaaatt gaacaatgga agctctcgag atattcaa 240
ggtcataact ttctactcgg atgtccgatt caggtgtatc acatatccag acgcttgga 300
ttgattagcg gaagctctag agaaattcaa atggtcataa cttttcacac ggaggtccta 360
ttcaagcgct taatatatcg agacgctcg 389

<210> 3028
<211> 305
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3028

ngagaatgga gaattgcact aagcaattat tactcatagc tctttactcg aaagtggagg 60
acacatgaac gatnacacaa ttcatggagc tcttgaaaaa gggtagataa tggagaatta 120
cactaagcta tcactacgca tagcttcaaa ctccaaggtg gaggacacat gaacgataac 180
gcaattcatg gtgctccgaa aagattgaaa atggagaatt gcactacgca atcactacgc 240
atagctcaa acgcgaaggt ggaggacaca tgaacgaaaa cgctattcat ggngctccga 300
aaaga 305

<210> 3029
<211> 281
<212> DNA
<213> Glycine max

<400> 3029

1299

caatggcaaa cactccatcc acctaccttg ttgctctata caacacgctc gaagtagatc 60
ctctatagtc tgaatacttc gttcagtcctg accatctgtt tgaagatgat cacttgaact 120
aaccttcaac ttctgtccca aggccttcctg tacactcgtc caaaatcgcc aagtgaacct 180
tggattcctg tcagatacaa tactcgaagg aattccctgc taccttacta cttccttgat 240
atacaacttc actagctttt ccattctata cctcatatc a 281

<210> 3030
<211> 444
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3030

tgngattctc ataaacactg agtctanact catncaactg ttgcaacctg ttactacata 60
cttaggatca aaaattacca acattaaaac ccacatgggt ttgcacttaa ttgagtaagc 120
tcattgggac ctgtaggcct aagatcttct ttatcgatgg gatcctttgc ttctttggaa 180
gatgaatggc agcggaatag agaaggaaga gagagaggag acgccacttc caggagaaga 240
tgagtctaga anaagctcac caccatanga ggccaaggat aagaagctgg aggaagaang 300
agatgaatga anggagaggg agagaagagc acgaaattnt gtgctctaaa agagctctga 360
aatctgaatt taatattcan atgatcaann agtttcaaaa atgcacacac atgaccttta 420
tttatagcct aagtgtcaca caaa 444

<210> 3031
<211> 393
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3031

tatatagaag gtttgttcct aatttctcta caatttcctc acctttcaat gagctgggtga 60
agaagaatgc ggcatttacc tgnggtgaan aacaagagca aagctttgct ttgctcaaag 120
aaaagcttac taaggaacct attctagctc tttctgactt ttctaaaact tttgagctag 180
aatgtgatgc ctctggagtg ggagttggag ctgtattggt acaaggtggg cacccttattg 240
cttatttttag tgaaaaactt catggtgccca cctcaacta cctcacatat gataaagagc 300

tttatgcctt aataagagcc ctccanactt angaacatta ccttgtnctc aaggaatttg 360
tcattcatag tgattatcaa ttacttaagt aca 393

<210> 3032
<211> 434
<212> DNA
<213> Glycine max

<223> unsure at all'n locations
<400> 3032

tcttagtttc agatgatgca gctgagtttg tagctacctc atgcactcct ctaatgacta 60
taacatcatt tctggcgcta aactgctggg agttggaagc catcttctca attaaatntc 120
tggcttcagc aggagtcatg tctccaaggg ctccaccact ggcagcatct atcatacttc 180
tctccatatt actgagtcct tcataaaaaat attggagaag caactgctct gaaatctgat 240
ggtgagggaa actgacacat agttttttta atctctccca gtattcatatc aagatctctc 300
cactgagttg tctaatacct gagatatacct tctgatggc tatggtcttg gaagccaggg 360
aaattttttc taagaatact ctcttcaagt catcccagct cgtgatggac cttggagcaa 420
ggtaatacaa ttag 434

<210> 3033
<211> 406
<212> DNA
<213> Glycine max

<400> 3033

agctatgaat gctctattta ttggagtcga ccataatata ttcagactga tcaacacatg 60
cacagtggcc aacgatgcat gggacatcct gaaaaccact catgaaggaa cctccacagt 120
gaagatgtcc atattgcaac tattggccac aaaattctaa aatctaaaga tgaacgacga 180
agaatgtatt tatgacttcc acatgaacat tcttgaaatt gccaatgctt gcactgtctt 240
gggagagacg atgacagatg aaaagctggg gagaaagatc ctcatatcct tgcctaagag 300
atttgacatg aaagtcactg caatagacga ggccaacac atttgccact tgagagtgga 360
tgaactcatt ggttctcttc tacctttgag ctacgactct cggata 406

<210> 3034
<211> 425

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 3034

 atacacgaat gaagctctga taccacttgt tagacaagtg gcctcagata tcttaagaag 60
 ggggggttgaa ttaagatatt gcaaactatt tccccaatta aaattctatt tcaatttcaa 120
 tgcaagttgc acgttccctt adaaaatgaa cttttaaata atgattcaaa aagaacaatc 180
 tgaatataaa tataaagcaa taataaataa atgagtttaa gggaagagaa actgcaaact 240
 cagatttata ctggttcagc cacacccttg tgcetacgtc cagtcccca gcaacccgct 300
 tgagagttcc actatcttgt gaaattcttt tacaagttct gaacacacaa cgacaatcat 360
 tcctttgagt ttagatntct ttacaacaag agaccatcgg tctctcaatc ccctttgaga 420
 attta 425

<210> 3035
 <211> 434
 <212> DNA
 <213> Glycine max

<400> 3035

 caactcattg ttgatagaac atcgaccctc attggtgata ttgttcgaag aatgtcagat 60
 ttttctataa gacatatggc ctccacattg tctgctgcct tgaacattgc aaagaggaaa 120
 gaaaaagtta gatctttgga agcatttaca aattctagaa taataggagg actttatatt 180
 tataaattat tctaccttat tatctgacat aactctaag aaatctttaa aatcccacaa 240
 cctgctccac ttccatggct tcctaggtga tttttctcta acaatatact tgcccaaact 300
 gcacaacaac tcatgcattt gaatccacct cgaatccatg gttatgagtg atttatcaac 360
 gagaacttgt acgcatatt cggaatttaa tccacgaaaa tctataactt ccttcacata 420
 tttcacagga taat 434

<210> 3036
 <211> 376
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3036

agcttcaaca ccggaatctt gtacagctcc ttgtttgttg cattacagga aaacaaaaat 60
tactattata tgaatacatg gttaatggaa gcctggactc cttcatatct ggtacgtaat 120
atatgaatca tgcctaaatt acgttcactt gtgttctatt ctttaagcta atactcagca 180
ccttattaat cttgaatata taatactgaa caataattct taactctttc agataaaaata 240
aaaagtaaat tactggattg cctcaacgc ttacacataa tacttggaat tcctaggggg 300
ctttcgatn ttcatcaaga ttctcgatta atgattattc atacagatct caacgcacgt 360
aacattttac tcgatg 376

<210> 3037
<211> 429
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3037

agcttgcttc tacaatctcc cctttntgat gatgacaact ctaacatcaa gacacacata 60
cacacacttt tgtctagtcg attactcact taattntcca ttctnccct ttgtttttga 120
gtttatgctt cacttgaaat taagttaatt acttatgtga gttcttgatt taatccctat 180
ttctcttcgc ctttggcatc aacaaacagc catagtgcac aacaagtata aaacatttat 240
atactattaa tcattcacia gacattcatt gaagaatata aaccaatcat gaagcaagaa 300
acatgaatag atcaaataa taaaaaccac atagtcatat aacataattc ataattgttc 360
aatcatacca tgcaaataaa gaaatactaa attgttcaaa tgtcaaaata tagccaaata 420
cacggctag 429

<210> 3038
<211> 389
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3038

tatctaaatg caccctatag tgtattactt ttcacatgta tttgtgtatc tatgtttgat 60
catgattttt tgccaccccc tgcacgtggg tatcaagggt gcagagttat gttgggcctt 120
gtgttggtat gctttcaatc gacaaacaat cttctgataa ccatttgata acccacccaa 180

agattgcaga tagacctgtg cctattgata attctgacat tatttcaaag ggaaataact 240
 gtgacagcaa taatttagat attcatcgaa tgttggaaga ggttacagac tatgttttag 300
 ttcctgaaaa agtgtgggaa aggctgttgg aatggtaaatt ttattatata aatatgttgc 360
 tttttaattt ggaaaanatg aatgatctt 389

<210> 3039
 <211> 413
 <212> DNA
 <213> Glycine max

<400> 3039

taaagatcca acctctatga tgcaatccta ccccgcaagg gcattgggta gaagactcaa 60
 agtagattgg gctagagatc caagggaagg ccctaggggt ctcagagacc ttagggtaga 120
 tttcgagccc atgggctaag tatgagcctg cttatctttg taaatattag aataggtttt 180
 cccttcgtct gggccttgta ctttggccat tctaatacta tagggtttta gccttgtatt 240
 tcgaggcatt ttgagtagtt tttgtagtaa ggaatttttt ttttattttc atgtttttgt 300
 catgggggtgc gcttagctat tatagagggt gtgtagctaa gctctagctt ctcactcaa 360
 ggaggtgagc ttagctatta gagaggtatg tgtatctaag ctctagcttc ttt 413

<210> 3040
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3040

agcttcaaatt atcttacttg attcgtaaag caaatctcat ttatctaata ttntactagt 60
 catattggct cttctaacat tccttttttg tgatgacaga attaccatgc aaaactttct 120
 gcttttggct tggcaaaaga tggaccacct ggtgataaga gccatgtctc tacaagggtta 180
 atgggcacat atggctatgt tgctcctgaa tatatggcca caggtaacct agtttgtgga 240
 gtacttagct tatgaacact ttagttgggc atacaaactt ctatacatat cctgccttct 300
 aaattattgc gcaccaacca tataatacat taccgaaaat aagacacct tatcaattct 360
 ttntcaagcc atcggggagc ttntagctt cttttttttc ccttcattaa caagcac 417

<210> 3041
 <211> 419
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3041

ctgagagttc actcataatt taattcatcg gtctgtctac gatgtttatt aaaaggggga 60
 gaaacatgtg cgagggattc taattgctgt cctatttgaa catgtctcag taaagagatt 120
 agatccttcg ggtagcgata ttttgatgat gagtaatatc attttcaatg tattacaaaa 180
 gagctctttt tgtatttttt atttatctaa cgaaatgtcg atatcagagt agcaactctt 240
 angagatagt tctatattga cttaaataag attggagaat taataagcgt agatccggga 300
 attcccgata tatgtcaacc tttcgaacta tcgctgaatc catgagtagg cactagacag 360
 tctggtgaac tgaaacatct tattatctat ggagtatggt gcttaaattg attaataatt 419

<210> 3042
 <211> 449
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3042

ntgagccaat tctaacgaca ataacctttt actcggatgt ccgattgagt cccgtaatat 60
 atcgacacgc tcgaaattga atgttgaagc tctaagccaa ttcaaacaac aataactttt 120
 tactcggatg tccgattcaa tgacgtaata tatcgggacg ctcgaaattg aatgttgaac 180
 ctctaggcca actcaaacga caataacttt ttactcggat gtctgattga gtcccgtaat 240
 acatggagac gctcgaaatt gaatgtttta gctntgagca aattcaaacg acaataactt 300
 ttactcggga tgtctgattg agtcccgtaa tatatggaga cgctcgatat tgaatgttga 360
 agctttgagc caattcaaac gaccataacc ttttactcgg atgtctgatt gagtcccgta 420
 atatatcgag acgctcgaat tgaatgttg 449

<210> 3043
 <211> 448
 <212> DNA
 <213> Glycine max

<400> 3043

acttttagatc gctacaaaga aggacaaata tcagtatgga ccaccttatg gactcctcta 60
agaacaatag catcatttct tgcactgaat tattgggaat cggaagccat cttctcaatc 120
aaattcctag cctcagtagg ggtcatatca ccaagagctc caccactgga agcatcaatc 180
atactcctct ccatgttgct aagtcctca tagaaatatt gaagaagaag ttgctcaaaa 240
atctggtggt gagggcagct tgcacacaat ttcttgaatc tttccaata ctcatacaat 300
ctttctccac caagttgcct gatgcctgaa atgtctttac tgatggcagt ggtcctatat 360
gcaaggaaga aattctccaa gaacaccctc ttaaagtcac cgcaactgaa aatagacctg 420
tgagcaaggt agtatagcca catctttc 448

<210> 3044

<211> 399

<212> DNA

<213> Glycine max

<400> 3044

ttgcccattg acttttagata gctacaaaga aggacatata tcagtatgga ccaccttatg 60
gactcctcta agaacaatag catcattgct tgcactgaat tattgggaat tggaagccat 120
cttctcaatc aaattcctag cctcagtagg ggtcatatca ccaagagctc caccactgga 180
agcatcaatc atactcctct ccatgttgct aagtcctca tagaaatatt gaagaagaag 240
ttgctcaaaa atctggtggt gagggcagct tgcacacaat ttcttgaatc tttccaata 300
ctcatacaat ctttctccac caagttgcct gatgcctgaa atgacttttc tgatggcagt 360
ggttctatat gcacggaaga atttctccaa gaacaccct 399

<210> 3045

<211> 432

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3045

tgagatggaa caggtcaaat gcgtgggata ccaacttggtg tgttttcacc aacaacatga 60
tggcaatcaa tttccaagt tttggcgtgt ttgtgaaaaa ctggatttgc agctatgtga 120
agagcacttt agttgttaca atattaattt aactgaggta catgtgcatt gaactttgag 180

attagagaac aaatacataa gtcattatag ttcacaaaaca acagagacaa atgctntata 240
 ttatgggttg ggataagtgt tttgttttgt ttgttgagaa tgacaagtgg gtgggaatta 300
 cactttacta caacaatgga attggatccc tgagtgcaga gcagattcag aggatctctg 360
 caagggtgag gcagtacggt aagattgaag gcaagaatgt cttgtattgg ttctagaacc 420
 acaaagctcg ag 432

<210> 3046
 <211> 441
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3046

agcttctgat ccaccaagg aggaatacat acatgtaga gctcgccggc gtcaagcaac 60
 aaacagccat agccttgtag agagagtaag attntgtgag aacttatctg taatgaaaat 120
 gaagtttttg tatgaagaat tttaaattac attttctactg ccggtgagga gggaaaagat 180
 aagtgagaga atgaagtttc ttcaagatct tgtacctgga tgcagcaagg tggcttctaa 240
 gtttgaaccc acaaaattca ctatgtcata ttgttatttg cgtttatgta tcacatcctt 300
 ttaacattgc tatttttact ttctatgctt ttacgtcact ggcaacgcag taatgctaga 360
 tgaaatcatc aactatgtac agtcacttca acgaccggtt gaggtatgga tgaacagctt 420
 atctccctat tgcccacatg t 441

<210> 3047
 <211> 264
 <212> DNA
 <213> Glycine max

<400> 3047

tatggtactc aatatcgagc gtgtgggtat ttatgcgctt gattcggaca tgcgtgtgaa 60
 atgttatgat catttgaatt tctcgagggc ttctattggt caatttcacg cgttttgata 120
 tattatacgc ctgaatcgca catgcgcgtg aaaagttatg acctttacga tttctcgaga 180
 gcttccgttg ttcaatttcg agcgcctaga tatattatgc gccataatct gacatccgag 240
 tgaaaagtta tgaccatgtg gatt 264

<210> 3048
 <211> 393
 <212> DNA
 <213> Glycine max

<400> 3048

tatcttatga caattccaat ctttataagc acaatgtaca aatctatcat gacaaacagc 60
 tatcaaaaag gaattttcac cctgccccac aactattggt atttaattct cgattaacat 120
 tattttctacg taagctaaaa tccaagtggc atggaccatt catcatcaaa gaagttatgc 180
 cacatggagc actgatattg gacgacccaa cccaccaaac gacatggatc gtgaatggaa 240
 gcaaaatcac acactaccta cgtggagatt tcgagacgat aatcattggt gtcccgcctac 300
 accacgcttg aaccacaaca aagacctcca actattaaga cgttaaagaa gtgctcctgc 360
 gacgccacct actattttcta aaccctactt ttt 393

<210> 3049
 <211> 332
 <212> DNA
 <213> Glycine max

<400> 3049

agcttgagaa aatcttttat aaaaccatcg gaagagttac atctcttgat tttttattca 60
 taacttttca ctggtcatcc attactataa ccatgtaatc gattacacaa aacattctat 120
 gaaaagatgt gactcttcac aattgaattt gaatttcaac gttcagatac actgggtcatc 180
 gattaccaat atattgtaat tgattacacc gtttaaaaaa acatttggaac cgttgcaaat 240
 tcacttaaaa gcttttgaaa tcaaacttta ccaactggtaa ttgattacac gtaattggta 300
 atcgattacc agagagtaaa tactctggta ac 332

<210> 3050
 <211> 449
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3050

tatgctgcan atattttacaa tagacctcct caacctcagc agcttaatca accacagcag 60
 aacaattatg acctctccag caacagatac aacctggat ggaggaatca ccctaattctc 120

agatgggtcta gccctcagca acaacaatag cagcctgctc ctttcttcca aaatgttggt 180
 ggcccaagca gaccgtacat tcctccacca atccaacaac agcaacagcc ccagaaacag 240
 ccaacagttg aggccctcc acaaccttcc ctgaagaac ttgtgaggca aatgactatg 300
 cagaacatgc agtttcaaca agagaccaga gttccattt agagcttgac taatcagata 360
 ggacaattag ctacacaatt gaatcaacaa aagtcacaga attctgacaa gctaccttct 420
 caagctgtcc aaaatcccaa aaatgtcag 449

<210> 3051
 <211> 420
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3051

agcttgtgca ttcaatatct tgatgacggg gctctatatg ttctcaatat tggactaata 60
 catttgctgc ccaagtttca tgggtcttgca cgtgaatata ctcttaagca tcttaaggag 120
 tttcatattg ttgttccac catgaagccc cctgatgtcc acgaagatca tatctttcta 180
 aacgctnttc ctcatctct agagggagcg cgacaagatt gggtatacta ccttcgctcc 240
 acctccattt ttagctggga tcaccttaac acgggtgttct tggagaaatt cttctctgca 300
 tctacgacca ctgccatcag aaaggatatt tcacgcatta cgccactcag cgacacagaac 360
 ctatatgaat actacgagag attacaaaac tatatgccac ctgctctcac actacatttc 420

<210> 3052
 <211> 346
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3052

tgtgggtgga cgacgcatga acganaacgc aattcatggn gtcacaaaaa aggggtgagg 60
 atggagaatt gcactaagca atcactacgc atgggtccaa ggtccagggt ggaggacgca 120
 tgaacgaaaa tgcaattcat ggggctccaa aaaagggttg aggatggaga attgcactaa 180
 gcaatcacta cgaacggctc caaactcgtg ggtgaaggac gcatgaacga aaatgccatt 240
 catggggctt cgaaaaaggg ttgaggatgg agaattgcac taagcaatca ctacgcatgg 300

ctccaagctc ctgtgtggag gacgcatgaa cgaaaatcac attcat

346

<210> 3053
<211> 432
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3053

agcttgaaat tgaacaacgg aagctctcga gattatcgag tgcgcatata ttttacaccg 60
atgttcgatt cggcgaaata atatatcgag acgcacgana ttgaacaacg gaagctctcg 120
agaaattcga atggtcataa catttcaactc ggatgttcga ttccgcgaca taatttatcg 180
agacgcttca aattgaacaa ccgaagctct cgacaaatta gaatggtctt aacttttcac 240
gccaatgttc cattccggga cataactcat ctatacgctt caaactgaac aacggaagct 300
cttgagaaat ttgaatggtc ataagtcttc acaccgatgt ctcgattggg gacataatat 360
atcaagacga ttcaaattga acaacgcgcg ctctcgacac aatcgaatgg ccataaccct 420
tcacacacat gt 432

<210> 3054
<211> 407
<212> DNA
<213> Glycine max

<400> 3054

ctgcaagctt atataaatcc gaacgccata ctcacgtata tttcacaact gaaaagtgaa 60
tattgaactt atgaagtggg aacgggtgtc aatgtgctta cttcttttca tgaaagactg 120
gattctttgt cacagcgagt gctgatttat tgtccacaca tatttcata ggttcttctt 180
gtggcatttt taactctctc aacaagttcc ttagccaaat tgcattgaaa acgcatgatg 240
tggcaccgac atactccgct tcacaagttg atagcgtcac tattgcttgc ttctttgaca 300
tccaagtgaa agccctatct ccataaaga acacaacacc agtagtgctc tttctatcat 360
ccaagtcttc actccaatcg ctatcactat agcccacaat cgtataa 407

<210> 3055
<211> 391
<212> DNA

<213> Glycine max

<400> 3055

cgtaggggta aagtctcacg attgtcacgt gtcacatgcaa caattgttag tctgggctat 60
acgagacatc ttgctaaaca aagtcagggt agcgataact cacttgtgct ttttcttcca 120
tgctatatgt agcaaagtca ttgatcctgt caagtttgat gagttggaaa atgaggccgc 180
aattatactg tgccagttgg agatgtattc tccccttgct ttctttgaca tcatgattca 240
catgattgtg catttgggtca gagaaatcaa atgttgggt cctgtttatc tacgggtggat 300
gtacccgggt gagcgatata tgaagatctt aatagggtat acaaagaatc tatatcgctc 360
agaagcgtct attgttgaga ggtacattgc a 391

<210> 3056

<211> 386

<212> DNA

<213> Glycine max

<400> 3056

gacctattaa actaagcttc tctatatgtg atgtcctaaa tcggtcatcc gggttaaagt 60
tatgaccatt tgaattactc aagagcttcc gatgctcaat ttcgagcgtc acgatatttt 120
atgcgcctga atcggacatc cgagtgaataa gttaagacta tttgaatttc tcgagagctt 180
ccgttggtga atttcgagcg tctcgatata ttatgcgcct gaatctgaca tccgagttaa 240
aagttatgaa tatttgaatt tctcgagagc tttcgctggt taatttcgag cgtcacgata 300
tattatgcgc ctgaatcgga cctccgagtg aaaagttatg accatttgaa tttctcgaga 360
gcttcccgtg ttcaatgtcc agcgtc 386

<210> 3057

<211> 243

<212> DNA

<213> Glycine max

<400> 3057

agcttgaaat tgaacaatgg aagctctcca cagttttaaa tactcataac ttttactcgt 60
gaggccagat tcagacgcat aatatatcga gacgcttgca attgaacaac caaacgctcc 120
tcagaaattc aaatgggtcat aacttttcac tccgacgtcc cactctgcgc ataatatatc 180

aagatgcttc aaattgaaca accacagctc tcgaaaactc caacgcgctc taacctttca 240
cat 243

<210> 3058
<211> 449
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3058

gattctatag tcttaattgc caatgatgat taatttatca atgatatagt taaagtttca 60
cattttgcat ctgggcatta cttgtgaaaa ttatttatag gtttaattac tcatttgatt 120
ntatagttcc atcattttata ccttttagtc cctatagttg taaagtgatt tttttagtct 180
ttatgattta cattntaatt gtcttttaat cctttagtct tgaaagtaat tttttaagtc 240
attataattt gtatttttaat ttctttataa tccttatagt ttgaaaatga tctttttaat 300
ccatatactt tatatttttaa tttcctttta gtccttatca ttaaaatatg agtaatatta 360
tcaattataa ttaactacaa aaataataat aagtaattcg taactaattt atcgcaagat 420
aatttgaata atttntttta taattataa 449

<210> 3059
<211> 403
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3059

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ttctcatggt ccactttgac cccaattcta tcaactacaa accctaagaa aactatatta 120
tctacacaaa aagtacactt ctctatattt gcatatagcg tgtttttctt aaggactaaa 180
agaacttgcc tgagatgtcc caagtgatca tctaggctcc tactgtacat taaaatatca 240
tcaaaaataaa caactacaaa tctacctatg aaatccctta agacatgatg cataagcatc 300
ataaagggtgc tnggtgcagt agtgagccca aaaggcatca ctggccattc atacaaacca 360
nacttgggtct tgaaagcggg tttncactca ttaccctttt tca 403

<210> 3060

<211> 406
 <212> DNA
 <213> Glycine max

<400> 3060

gtgatccgcc tctatatttg ccacaattct atcttccttc catataatga gtttctgggtg 60
 aagggtagat ggcacagccc caactccatg aatccattct cttcctaata acaagttaaa 120
 attagccttg gactgaatca ccaggaatag agttggtcga actatactgc ctacagcaac 180
 atctacttga atggctccca aagaatagcc agttgtacct tcataattcg aaagcacaat 240
 gttgtgggca gatagatcag tgtcatgttt cccgattttg tagagcatat atcgaggcat 300
 taaattgaca gccgctcctc catcaatgag cactttgttg attccaacat tctcaacttt 360
 tgctctgatg aaaagagggt tgagatgact cttcatctga aaatct 406

<210> 3061
 <211> 308
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3061

tctaaaatgc ccgattgggtc tgcctcagca aatgtacaaa ggggaccgct gtttgggtga 60
 ccctcttctt cccattcagg ttgggttgac caaaaaacga catatatatt tctgtcttat 120
 cccctcatca tccatatttc caatcatcac ctatacttnt tttaatgtta aataattaca 180
 aatttaaata agattaaaat attatttgat tagttatttg gacacttgcc atttgggttag 240
 ttataactta acatattatt tttcattata caatctatgt taggtttatt ctcatataat 300
 ccttttta 308

<210> 3062
 <211> 378
 <212> DNA
 <213> Glycine max

<400> 3062

agcttgtgca ttcaatatcc tgacgagggt gtttcatatg ttctcaagac tggactaata 60
 catttgttgc ccaagtttca tgggtcttgca cgtgaacatc cttataagca tcttacggag 120
 ttccatattt tttgttccac catgaagctt cctgatatcc aaaaagatca tatctttcta 180

aaggtttttt ctcattctct ggagggagtg gcaaaagatt ggttgacta ccttgctccc 240
 aggtccattt tcagctggga tgaccttaag aggggtgtctc tggagaaatt cttccctaca 300
 tctaggacca ctgccatcac aacacacatt tcaggcatca cgcaacttag tggagagagc 360
 ttgtatgagt actgggaa 378

<210> 3063
 <211> 423
 <212> DNA
 <213> Glycine max
 <400> 3063

agcttcttat ccaaggcact agaacgcctt tggtgaggat cctttactcc gacagcatct 60
 agggttcctc gaacaatgtg atatctcaca ctacgtaaatt ctttaaccct cccctctta 120
 ctaagactac agaataattct tgtaaattat gtccaatacc aagtatataa gcagtaattt 180
 caaatccaaa cgtaaagtgt actctactaa ctttatgtaa agcagacttt ggttttttgg 240
 gtgtaataat ggaaaagtgt acagataagt cacccttatt gccactctac agaaccatac 300
 atgagatttt cacttcatat ggctcctcgt tcaattcttt tgaagtcatt ggatctgttt 360
 cctagtccag tttgagaatc tctccctttt ttctaatttg gtccgaagag taactacgac 420
 caa 423

<210> 3064
 <211> 437
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3064

ggctcgtctt gctgatatat gcagactntt ctgatgatga ccgatgaaca attatggatc 60
 aacttgaaac ttatgtgctt caagtgagaa gaaatgcttc tttttccact tgtgaagatg 120
 ttcaaagttt ggctatgaag atgggttcaaa ctgagaaaca ttcggtattt ccattggttt 180
 ataaacttat tgagctagct ntgatattgc cgggtgctgac cgcacccggt gaaagagctt 240
 tttcagcaat gaagattatc aagtctaaat tgcgcaataa gatcaacgat gtgtcaattg 300
 tatttgtaat taaattaaag tatacaagta aactttaata ttttagctta aaaacatgaa 360

taccaatacc acaatactat tgataattga atgaaatttt aaaacattaa taaaacaata 420
attgttaatt attaaat 437

<210> 3065
<211> 379
<212> DNA
<213> Glycine max

<400> 3065

ttcttctatg atcactcatg attataaagc ggtgctccaa aaggtattgc ctccatttct 60
taacagcagt ggtaatcgca gtgagttcac gaacataagt ggaggagcta agtaacctag 120
cgcaaaactg tttgctaaaa aaatctatta cgtgtcttcc ttacgacacc accgtgcccc 180
taccggaacc cgaggcggtt gtctctacca tgaaggattt agtgaagtca ggaagtgcta 240
agactggaga atgtgtcata ccattgcttca agtttttgaa ggcaacgtca acttcaacag 300
tccacttgaa ctcttctttg ttaacaggca tgagagtggg gctgccaaag tagcgtagct 360
tcttatacat ctatgataa 379

<210> 3066
<211> 230
<212> DNA
<213> Glycine max

<400> 3066

ttcgagcgtc tcgatatatt actggactca atcagacatg cgagtaacac gttattgtcg 60
ttcgaaaatt ctcagagctt tggaattcaa tttcgagcgt ctcgaaatat taccggtctc 120
aatcagacat ccgagtaaaa agttattggc gtttgaatta gctctgaggt tcagaatttc 180
aattcgagcg tttcaatata ttacgggact caataatata ttcgagcaaa 230

<210> 3067
<211> 455
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3067

agctntngca agctggaatc atatatacta tctccgacag ccaatgggtg agtcccgtcc 60
aggtagtccc gaagaagacc ggcctcacag tgatatanaa tgagaaggag gagctgattc 120

ctactcgggt gcagaacaag tggagagtct gcattgacta tatgaggctg aaccaagtta 180
 ccaaaaagga ccattttccc ttgccattca ttgaccagat gcttgagcgc ctggcangta 240
 aatctcacta ctgtttcctt gatgggtttt ctgggtatat gcanattact attgctcctg 300
 aggatcagga naagaccaca ttcacctgcc ccttcaacac ttttgcctat aggaggatgt 360
 ctttcggcct gtgcaatgcc cctggtacct tccagcgggt catgattagt attttcagcg 420
 acttcttaaa aaatgcatag aggtgttcat ggatg 455

<210> 3068
 <211> 444
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3068

atatttctnt gttctaatag taactccaac cattttacag cttctaattgt tatgattggt 60
 ttggccacac cttccacatg taaactcagc caatttcctc tttagcttat gtcctgtgac 120
 attgtcctca tctacagatc tccttctatt tttcattggc cttcctcttt ggaccctctt 180
 atgtggtgga acagggtgtg tatattgtgt ctgggtccaa tattgtggta tttggactgg 240
 ttcaatanaa tgctggtatg tcttattata agcttctatt gacagccact catgacacat 300
 gtcctcaggc ttcccttctt tgtgagttat tgttgcaatg gcatgtcaac atggcatccc 360
 ttcatcanag ttgtaaaatc agcacacatg tatgttagga atgaaaaaaaa aaactataaa 420
 gaacacaacc tgtagttgca tact 444

<210> 3069
 <211> 384
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3069

gtggcatgtc ccacttgtgc tttttctatc taanttgcac cctgcacaat caaaatctat 60
 aaagcctgtt agattttaagg aggtaccttt gngatactc acaccacat tggttgtgcc 120
 cttaagatac ttaatgatca tattaacgaa aattaagtga gattccttag gattggactg 180
 acatcttgca cataagcaaa cacttagcat gatatttagt ctactttag taggtagag 240

aagtgatcca atcatagctc tacatcttga ttcatcaaca nnatttacct tttcatctaa 300
 gtcaaggtag gttgaagtag ccattggagt agatgcttct ttgcattttt ccataccgaa 360
 tttcttaatt agttctatat agta 384

<210> 3070
 <211> 454
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3070

agcttctata gaggttnttg tggactgctt gtctatttat accagaatac cttcagctac 60
 aatattgaaa agcaagggag ctaggggatc ttcttgtctc aaacccttg tagggagaaa 120
 tttcttagaa gggcttgctt taatcaaaat tgatataaaa gctgagtga ggcaagctga 180
 tatccatgat ctccattttg agcaaaatcc caacctgaac agcatgtagt ccaaaaaaga 240
 ccaagaaact gaatcgtacg ccttttcaaa gtccaccttg aagatcatca caggtttctt 300
 atttctcctt gcttctcaa ccacctcatt gagaatcaca ataccatgaa gaatatgcc 360
 tgctttaata aaggctgact tgctttcacc aattaacca ttcattacag acctcaatct 420
 ggtagacagc aacttggcta taactntata cata 454

<210> 3071
 <211> 434
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3071

tgatcataca gctgcagaga ggcggatcca aaaccactgt gtcgaacagt ttaatagcga 60
 agtggagctg ctctgccagc tgcgtcacc aaagatcgtc tctcttatag gattctgcaa 120
 cgacgaatat gataaactg atgtgtacta gtacacggtc aatggatctc taaatcgaca 180
 cctacgaggt gaggataccg atgcactgcc ctggaataag aaggtagaga tcttcatacg 240
 aatatangag cagcaagtgg actacactac cttgacaccg aactaacia cattctattg 300
 gatgataaca tgcagccaaa actgacagat ttcgaccttg gcgacaccga gcatgtttat 360
 gtcaagccca aaccaagtat agagagaatg ataatatatg ggaaatcata tcttatttat 420

gagctacact cact

434

<210> 3072
<211> 417
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3072

tgtggacatt gtgcaatggg tgagaaaaat gacagactcc aacaaggaat gagttcttaa 60
agttcttgat cctagacttc cctcaggtcc acttcataag gtgattcatg ttttttatgt 120
aaccatgcta tgtgttgagg aacaggcggg ggagcggcca actatgtgca aagttgttca 180
aattctgacc gagcttccaa aaccaccaag ctcaaaacaa ggagacttaa caatcataga 240
atcctctgtg tcattatcaa acagttttaga gtctccaacc acggcatcaa aggaacccan 300
agatcaacat catcctcaat ggccaccaac cgatctactt atcatttgaa ttttgagtgc 360
tcagttggag acaaggggtgt gcgtcatatt atttccttgg attgggtagc tatctat 417

<210> 3073
<211> 464
<212> DNA
<213> Glycine max

<400> 3073

agcttctgtt cgtgcttaac agataattga aagactattg tcttactcct tgtgctgaat 60
tcacgggtact cagctgaaat agcatagaat ctgtaatcct cactgggttg aatacctgca 120
gagatatcaa cattcaacca aacatatctt aatatcaatt ttaaacaaaa gtaaacaatga 180
gcaacaataa tagtataata cccgactatt caacatagca atttagttta cctttgtcat 240
tagcgtctcc attccattga ccagagggtgt ggttccactc ccagaccacg ttctcatctt 300
ttttccaatc tgatttaacc catcgatttt cccaccgctc tggcatccac acaaagcaca 360
tgcacacgag ttagaaaagt gggaaatact gatctaggat taaagaaaat acaaatgaac 420
ttcgaagagg actaccggtt gaggcgcaag gacaaataat attt 464

<210> 3074
<211> 326
<212> DNA

<213> Glycine max

<400> 3074

agtgaattc tccattctca accccttttt ctgagcccca tgaattgca tttcgttcat 60
gtgtcctcca ctttcgagtt tggagctatg tgtagtgaat gcttagtgca attctcaatt 120
ctacaccctt tttcggagcc catgaattag cgtttcgttc atgtgtccct caccttcgtg 180
tttgagctta tgcgtagtga gtgcttattg caattcttca ttctcaacca ttttcggagc 240
cccatgaata gcgtgttcgt tcatgtgtgc tccaccatcg agtttggagc tatgcgtagt 300
gattgcctag tgcaattcta cattct 326

<210> 3075

<211> 450

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3075

agcttaaagg aagtgaacga attaggatgg gcagatatgt ctctgcactg attggtaaatt 60
ctgttcccca aattcctgaa aaatgtaaag atccaggtac attcagcata ctttgtatta 120
tagggaatag taagtttgac aatgccatgc tagatttaag agcttctggt agtgatatgc 180
ctctgtctat ttttaattct ctatctctag gtcccttgca gtcaactgat gtggcaattc 240
atttagctaa tagaagtgtt gcgtatcctg ttggtttcat agaagatgtc ttagttagag 300
ttgacgaact gattttccct gttgattntt atattntgaa tatggaagat ggattntctc 360
aaggatcagt tcccatcatt ctaggcagac cttttatgac cactactaga actaagatag 420
atgtttatac aggcacacta tccatggagt 450

<210> 3076

<211> 396

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3076

ttcctcttag tagggaatct ttccttcta agatagatcg attcccagtc cccttcatta 60
agaattagct cctttatttc tctattgcct ttagttgcat acacctttgt ttgattctct 120

atttggttcc taacctctc atgcaacttc tatacaaact ctgacctaga ttcccccttct 180
 ttacgtataa aagaagtgtc aagtgggagg ggaattaagt ctaaggatgt tagaggattg 240
 aaccattga caacctcana aggggattcc ttggtggttc tatgaacccc catgtttag 300
 gcaaattcta catgaagaag atattcatcc caagacttat ggttgccttt cagaagatcc 360
 cttanaaggg tggatagaga cctattcact acctct 396

<210> 3077
 <211> 457
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3077

gtcacctgcg gcatgaagct tataaaaaaa tatggcttcc taataggatg tgtactctct 60
 atgtaaggac agagatatgc tntgctctgt gcactcttga actatgttac tatttgtgtg 120
 ctcatgatca tggcgctata tgtaatgaac tttgtgcctt tctcaatgct tctaattctg 180
 ctgaaacctc tatcattgtc ggtcttttct ttccattaag tctcaagcat attattgcaa 240
 gatctgcaac agcaagaatg tcatctatac ttgcgtcctt gagcactctg tcatcaaaaa 300
 ttatacacac ttggctcttc ttcattcaatg aaatgaattg agcaaccaga tcttgaccct 360
 catcttcata taacaatgaa gtatgctgtc tcccagatat gagctgtaca agcacaactc 420
 ccagagtata cacatcactc ttatctgata attgact 457

<210> 3078
 <211> 380
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3078

cttgagcggg tntcctctac tcagttgaat ccagtgttcc ttctaagtct cattattaaa 60
 cgaaatgcaa aatgtcttaa tctcattatt ggtaaagaga aattctatct ttgtgcttcc 120
 attcctcatt cttcgcatta tttttttgga aaaaatgtgt gttgttctga tcggtttgtg 180
 gctttgttcc ttaccatgc gtgcttgcac tctagtgaga agtttcagaa acttcaaggt 240
 cttcagtcct ttacattcac aagacttcaa tgtcttctgt ctgttacatt ccanatactt 300

caatgtcttt tattttatac atttacaaga cttcaatgtc ttctttcttta catttcaaag 360
acttaatgtc ttttgctttt 380

<210> 3079
<211> 456
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3079

agcttgtggtt aatatgttct atagacactc tntgtttctg ttctttcttct ttcacggcaa 60
agtacttcaa ttccatatgc ttagcaccgc tagagtactt gtcgttctta gaaaagaata 120
ctgctgcgga gttatcacia tacattttca gtggcctagc aatactgtcg acaattccaa 180
gccctgaaat aaagttccgc agccaattag cctgaattgt agcctcaaaa catgctacaa 240
attcagcttc catgggtggat gcagcaacaa ctgattgttt tgcaactcttc catgatattg 300
ctcctccggc taagagaaat acaaagccaa gagtggattn tcttgtatcc acacatccag 360
caaagtctga gtctgaatat ccaatcacct ctaggtgatc agacctctta tatgtaagca 420
tgtggtcttt tgttccctgt aagtatctca gaactt 456

<210> 3080
<211> 348
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3080

ggcacgaaaa tcattcactg atgaaaaaga atgaccta atccacaagg actttcactg 60
gctggagaat atgcatcgat taccacaagc ttcaagaagc catgaggaaa gaccactttc 120
ttttgccttt catggaccaa atgtaggaga ggcttgtggg acaagcttat tacaacttct 180
tgtatggata ctctggatat aatcaaatta cggtggaccc caaggatcag gagaagacga 240
ccttcacatg accttntggg gtctttgctt tagaggtgca tgttggcata tttttagat 300
atggtggaga aaagtatcga ggtattcatg gatgatttct cggtatat 348

<210> 3081
<211> 462
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3081

tatgctgcan acatctacaa tagacctcct caacctcagc agcanaatct ttcacaacag 60
aataactatg acctctccag caacaggtac aatcccggat ggaggaatca tcccaacctt 120
atttggtcga atccttcaca acaacagcaa caacaacaac cttactttca aaatgctggt 180
ggcccaagca gaccatacgt tectncacca atctagcaac aacagcaaca acagaaacaa 240
caaacagtta agggccctcc gcaaccttcg cttgaagaac ntgtgaggca natgactatg 300
canaacatgc agtttcagca agatatcaaa gcctccattc agagcttaac taatcagatg 360
ggacagttgg ctacacagtt aaatcaacaa cagtcccaga attctgatag aataccttct 420
caatctgtcc agaatcacan aaatgtgagt gccattacat tg 462

<210> 3082

<211> 477

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3082

atgaattaaa aaaatctaan aaacacatta tatatccagc aaagtatatt tctttgttgg 60
tgaaatgadc cggaagcaaa acctcaaate tgattggtca gtatctactt taattgttga 120
tgtaagcaag ttcacagtgt gatgagcaac aaattttctca tcatgtactc caccatgatg 180
atgagaagac agatcgactt aaaagtccag agctcagagc tattcctctg gccagaatgt 240
tgactactag accctacac atgataaata accacaaaaa atgtnttttt atataaatgt 300
ttgccaatta atcaccctca atgtatcact tgataaatgg tttttataaa tggcatgcac 360
ttncggatac caataaatga gtgtgtaaag acatagctga ttccaaacct ggataatata 420
gggtccatt tgggtgaaca attcataccc ctactggtgg aaataattca agtcaca 477

<210> 3083

<211> 502

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3083

taagctctgc gtgncctctg ggctcaaaat cccaaaacaa atccctctta ttactagcta 60
 ttttgaattc tttagttcct gaatgtacaa ctttcaaatt ggtgggtcgtt cccctctttg 120
 gtttatgcaa aaaatgaaat caatatcaaa caaaacatgc atacaattgt catcggttatt 180
 gctacttgaa ccataaggaa taacatctaa agaagtactt taaaacgttt atctatTTTT 240
 tttggtatTT tttgaattac aatcttactt caatatctaa tattttaatg tacttaagtg 300
 gaggatgttg acgaagagaa ggagaatgaa gaaaataatt taaagaagat taaggaagtg 360
 tcacatattt ttctccttag caaggaagtg tcacatgaat gtcggttggt gaacaagcat 420
 aatggcattt ggatgacaga gcctgatgag atcacaaagg aggagtatta tgctttctac 480
 aagagtctca ccaatgactg ga 502

<210> 3084
 <211> 506
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3084

aaagttattc aaaataagaa aaatctcaca attatttcca taatgagtga tcatggnggt 60
 gaatttgaaa ataaagaatt tgaactatTT tgtgataagc atggcattga acataacttt 120
 tctgcaccta gaactcctca acaaaatgga gttgttgaaa ggaaaaatag gtcttttgaa 180
 gatattgcta gaaccttatt aaatgacact cctcttccaa aatatttttg ggctgaagcc 240
 gttaatactg catgctatat catgaatagg gctttaataa gaccattttt aaagaaaact 300
 ccatatgaat tgtttaatgg tagaaaaccc aacatatcac accttcattt atttggttgc 360
 aaatgctntg tactatacaa tggaaaagat aacttaggaa attnttatgc aaaatctgat 420
 gaaggcatct atcttgata ttcatgcan nagtaagcat atagagtata taacanaaga 480
 actatgatca tagaagagtc tattca 506

<210> 3085
 <211> 279
 <212> DNA
 <213> Glycine max
 <400> 3085

acgacaataa atacttactc ggatgtctgt atttttcccg taatacatcg agacgctcga 60
aactgaatgt tgaagctctc agcaaattca aacgacaata actctttact ctgatgtctg 120
attgagtcct gtaatatatc gagacgctcg aaaatgaatg ctgaagctct cagcaaattc 180
aaacgacaat aactttttac tcggatgtct gattaaagtc cgtaatacat cgagacgctc 240
gaaacagaat ggtgaagctc tcaaccaatt caaacgaca 279

<210> 3086
<211> 416
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3086

agcttaagaa ttctatttcg atcgtcccg tatatttttg gtctcaatca gatatccgag 60
ntaaaaagta ttgtcgtntg aattaactct gagggtcata attcaatttc gagcgtctca 120
atagattacg ggaccgcctc atacattcca gcaaaatggg attggcgctt gaattaactc 180
acaacttcac aattcaattt cgatcgtttc gatatattac eggactcaat caaacatctg 240
agtaaaaaag ctattgtcgt ttgaatttgc tgagagcttc aacattcaat ttcgagcgtc 300
tcgatgtatt acgggactca atcagacatc cgaggaaaaa gttattgtcg tttgaattgg 360
ctctgaggtt caaaattcaa tttcgagcgt ctgatatat tacgggactc aatcac 416

<210> 3087
<211> 482
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3087

agcttgtaag gttaaagtct cacgattgtc acgtgcttat gtttaattgt tagncgnggc 60
tatacgagac atcttgccca acaaagacag gttagcgata actcgctgt gctttttctt 120
ccatgctata tgtagcaaaa acattgatcc tgtcaagttt gatgagttgg aaaatgaggc 180
cacaattata ctgtgctagt tggagatgta ttttccccct gctttctttg acatcatgat 240
tcacttgatt gtgcatctgg tcagagaaat caaatgttgt ggtcctgttt atctatggtg 300
gatgtacccg gttgagcgat acatgaagat cttaaaaggg tatacaaaga gtctatattg 360

tccagaagca tcgcatctat tgttgagagg tacattgcag aagaagccat tgaatnttgt 420
 tcagaatact tagagaaggc taaacctatt ggccttcttg agtctcagca tgatgacaga 480
 gt 482

<210> 3088
 <211> 474
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3088

tcaagaatta tggcctcatc aaaatacttg tttcctgagg gaaattctat aaatagacct 60
 gccatcttta atggagtggg ttaccactac tggtaaaccg gcatgcaa at ctttatagag 120
 gcaatagatc taaatatttg ggaagccata gaacaaggac cttatgttcc ctctataata 180
 gccggaagtg caacaataga aaaacctaga gcaaattgga ctgaggaaga aagaagatta 240
 gtacaatata atttaaaggc caaaaatatt attacatctg ccttacgcat agatgaatac 300
 tctatggttt caaattgtaa aagtgctaag gatatgtggg atacactaca agtaacacat 360
 gaaggcacia cagatgttaa cagatctang ataaacactt taacgcgtga gtatgaacct 420
 tntangatga atgtaaatga aagtatacaa gacatgcaaa agagggtcac acac 474

<210> 3089
 <211> 416
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3089

agctngtaag ggtntaagtg ggaaatgata ttgagacttc acttgggtac caaccttgtg 60
 ctacaacaat tacagcaaga ccactatcc acaatgagag aacaattttt tgtaaacacc 120
 ctgcatcttg tatgaaggat gttctctctt ttgggttaag tcaggtcata aaatatactc 180
 ctaaggagcc ttctcaccat tagaagttca ccttcttcat aggggtaaaa ctctcaata 240
 tgcttatcac ccgtggcttc accctcactt ccacttgaag cgggaaaaga agtagcttcc 300
 tcttggtac tatatatgtc ttaaccctc atgatcatgg ttttctttgc agggattga 360
 gaagcaatgc ggcccttccc aatacatctg aagcacttga tggtactagt tctatc 416

<210> 3090
 <211> 474
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3090

agcttcaaca ttcaatttcg agcgtctaga tatatttctt gactcaatca aacatccgag 60
 taanatgtta ctgtcgttta aaattgcttg gctcttcagc attataattc gagcgtctcg 120
 atatattacg ggactatata agacatccga gtaaaaagtt ggtgtcgttt gaatttgctt 180
 agagattcaa cattcatctt cgagtgtctc gttatattac ggggctcaat tagacatccg 240
 agtaaaaagt tattgtcgtt ggaattggct ttgagcttca atattcaatt acgagggctc 300
 cgatatatta cgggactcaa tcagacatcc gagtaaaaag ttattgtcgt ttgaattntc 360
 tcatagcttc atcattcaat tntgagcgtc tctatatatt acaggactca ataagatatc 420
 cgactagaaa gttattgtcg tttaaattgc taagagcttc aacattcaac tttg 474

<210> 3091
 <211> 591
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3091

agcttgaagt gaggaagtgt ggaaggggtga gacttcctac ttttattcgt tgaccacaga 60
 gtagtaccta gaatacagaa gaagcaacaa caatcaattt aacaatattc tttaaakatg 120
 caagacacaa ttgattgcaa caaaataaat aagataaggg aagagagaat gcaaacacag 180
 ttttatactg gttcggccac aaccogtgcc tacgtccagt actcaagcaa cccacttgag 240
 atttccatta tctttgtaaa atcctttaca aagtctgaac cacacagga caacccatcc 300
 cttgtgttca gatgctttac aacaagagac tcacagtctc ttaaccaatc tcattgaata 360
 agaagaatgg aagaagaatt ctctcttcaa gagaagaata ttacaatgaa gatcatgtaa 420
 aaatccttat agattttgca agtgtttggc caagggattc ttttgagaga gcatttgaca 480
 atgaagttct tttggaatct ctctcattgt cttttgagag gataagacat ttntgccaag 540
 ccaaactctc ttaatctttt gagaggataa aacattttga tcaatcaaaa c 591

<210> 3092
 <211> 310
 <212> DNA
 <213> Glycine max

<400> 3092

ttacgagtgc ctgtatattg atgcgcctga gtcggacatt cgagtgaaaa gttatgacca 60
 tttgaatttc tcgagagctt cctatgggta attttgagcg tgctcatata ttatacgctt 120
 gaatcgaacc tcagggtgaa aagttatgac catttgaatt tcttgagagc atccgatgct 180
 cattatcgag cgtctctata tgtgatgcac ctgaatcgga cctccgtgtg aaaagttatg 240
 accatttgaa tttctcgaga gcttccggtg ttcaattttg agcgtctcga catattatgc 300
 gcccgaaatcg 310

<210> 3093
 <211> 294
 <212> DNA
 <213> Glycine max

<400> 3093

tcaaccaagg ggagatggac catttcaagt gcttgaaaga atcaatgact atgcttataa 60
 agttgaactg cccggtgagt ataatgtag ttccaccttc aatgtctctg atttacctct 120
 ttttgatgca gatggagaat ccgatttgag gacaaatcct tctcaagagg gagagaatga 180
 tgaggacatg accaatagca agggcaagga tccacttgaa ggacttggag gacctatgac 240
 aagggctaga gcaaggaaag ccaaggaagc tcttcaacaa gtgctgtcca tact 294

<210> 3094
 <211> 290
 <212> DNA
 <213> Glycine max

<400> 3094

tgtgggggga catgttgact tgctatgcaa tctgacattc accacagatt ctgccttatt 60
 ctattttcag ataggaatg cctctcacag cccctctgcc aatgatctgc ttcattgctg 120
 ttaagtgcag acgtccaaat ctttgatgcc atattctgac ttcattctct ttggaggata 180
 aacatgtgga ggactaactg gcttcttgag gtgtgcatag gcaacatggg tacttggatc 240

tgatgccgct tattataact acactcttct cattagtcac caagcattct

290

<210> 3095
<211> 593
<212> DNA
<213> Glycine max

<400> 3095

agcttcccaa ccaatctccg atatctttca ggatcagaat aaggctcccc ctgattgggt 60
aacaattttt gatttggatt catgggacta tcaattgatc tacaatctga catactagtt 120
tctttaagta tgtctaacgc atacttcctt tgtgagatga taatcccatc ttttgactga 180
gcaacttcaa ttccaagaaa atattttaagt tttcccaaat ccttagtatg aaaatgacta 240
aataaatgtt ccttcagttg agcaattttt tcttgggtcat ttctgtgat gactatatca 300
tctacataga ccaccaagta aacacatcta ctcgatgagg tatgacaata aaaaattgaa 360
tggtctgctt cacttcgttt catcccaaaa gcctgaacaa ctgagttgaa ttttccaaac 420
caagctcgtg gagattgttt gagtccataa agagacctcc gaagtttgca aaataagcta 480
gactccccct gagcaacaaa tccccgtggg tggctcatat aaatctcctc ttctaattct 540
catgtaggga tgcattttta atatccaact gatacagtga tccatgacgg atg 593

<210> 3096
<211> 297
<212> DNA
<213> Glycine max

<400> 3096

tccaagttt ttaagttctt cctcaaaact gtcttaagca aagatcccaa agtcctatta 60
acaacttccg tttgcccatc ggtttgtggg tgacaagtgg ttgaaaataa caatttagtg 120
cccaacttgc tccacaaagt cctccaaaaa tgacttagga acttagagtc cctatcacta 180
acaatgctcc ttggcaaacc atggagcctc acaatctcct tgaaaaacaa atcagccaca 240
tggaagcat catcaacttt tttacatgga ataaaatgag ccattttaga aaaccta 297

<210> 3097
<211> 499
<212> DNA
<213> Glycine max

<400> 3097

agctttaaga aaagtcaaac gacaataact tttaactcgg atgtccgatt gagtcccgta 60
atatacgaga cgcttgtaat tgaaaataga agctctgaac aaattcaatc gacattaact 120
tttgactcgg atgtccgatt gtgctccgta cgatacgcag acgctcgaaa ttcaaaacgg 180
aagctctgag aaaaatcaaa cgataataac tttaactcgg gatgtctgat cgagccctgt 240
aatatatcaa gacgtcaaaa attgaaaacg gatgctctaa gaaaagacaa acgaccataa 300
cttttgactc ggatgtctga ttaagtcccc gaagatatcg agacgctcgt aattgaaaat 360
ggaagctctg agaaaaatca aacgacaata acttttactc cggatgtctg attgcgcctt 420
gtaatatatc gagacgcacg aaaatgaaaa ctgaagctct aagaaatgtc aaactacaat 480
aactgttgac tcggatgtc 499

<210> 3098

<211> 295

<212> DNA

<213> Glycine max

<400> 3098

tgtatccatg gcttcctatg gtggtgagct tggtcttgac tcactcttc cttgaagtgg 60
catctccaat cacctttcct tcttttccat tccgttgta ttgatcttca agaagcaaag 120
ggctctattg atgaagaaga tccaatgctt acaagctcta tatggagcta catcagttta 180
tgaaatatag gttgaagttg tgtataatat ttgattgata tcattttttg ggggatcaag 240
gatatcatgc atatgttaca atttagatgc aaacaaaatt tgcatagact aacca 295

<210> 3099

<211> 293

<212> DNA

<213> Glycine max

<400> 3099

tctctaaatt tatattgcaa aacagagtat ctagacatag ttgtactcaa atatattatg 60
tagctatcct taatgttttg tgtaatatat tttctgtttc tcctctggca gcttaaacga 120
tgaggagcgga aggagtgtaa accaaacagt ctccctatct tgcacaaaat gcaggagatg 180
cggtttaagt catatttgga cgagaaaggg gtaaagttgg ggagattact gaaatcttca 240

agcatgacaa cagtgttata gtgaaagatt taaatttgaa gacaaagcat gtc 293

<210> 3100
<211> 709
<212> DNA
<213> Glycine max

<400> 3100

agcttgtaat tgattaaacc gatacgagat ataactctgt aagcttaaaa caacttttgt 60
aatcgattac tataagattg tagttgatta aaacacagag ttttatcttc tgaagaaatt 120
ttctaacttt gaaaattttc ttttcactca cacatgatga tgcattgatgc acaaatgata 180
tgatataaac taagatgcaa catttaatat aacaaataat acaaatgtca ttcaagagag 240
ttggaaatgt aaaagataaa acttcttcaa gcttcaaaac taagtcttca atgttgctca 300
tgttgctccc tctatctcta acataatatt caagtatttt tttatcatca agttattttt 360
aactttcaca aaccagggttt aaaaatattt tcaaagaaat aaactctcac atagagaata 420
aaggcaatgc aaaatgaata ctcatgaatt aactttgcta gccaaagcat aacactttga 480
gaccaaataga tcatctatga gagctttttt ggaaggagtt ttttgacact ttgtgtttac 540
ttatatccta agttcttttt cttcaaagtt tcaatctttc ttatatatag gctttaatta 600
atgggtacta gagagacgcc ccgtgccgat gcacgggctt atactaatat gtaaatattt 660
atacatatac attattacat gtatacacct atataatttt atttatttg 709

<210> 3101
<211> 294
<212> DNA
<213> Glycine max

<400> 3101

tgaaggtaaa ctagatgcct tggttaacct ggtaacctaa ctggatcatga atcaaaaatc 60
tgcacctgtt tccagacttt gtggtttatg ctctctatc gaccaccaca caaacctttt 120
cccttctgtg caacaatctg aagcaattga acagcctgaa gcttatgctg caaacatcta 180
caacagacct cctcaacctc agcagcaaaa tcagccacaa cagaataact atgacctctc 240
cagcaacagg tacaatcctg gatggaggaa tcatcccaac cttagatggt cgaa 294

<210> 3102

<211> 295
 <212> DNA
 <213> Glycine max

<400> 3102

ttgagaaaat tcaaacgaca ataacttttt actcggatgt ctgattgagt cccgaaatat 60
 atcgagacgc tcgaaattga ataccgaagc gctaagcaaa ttcaaacgac aaaaactttt 120
 tactcggatg tctgattgag tcccgttaata tatcgaaaag ctggaatgtg aatgtagaag 180
 ctctgagcaa attcaaaca caataacttt ttactcggat gtctgattga gtcccgtaat 240
 atatcgagat gctcgaaatg gaataccgaa gctctgagca aattcaaacy acaat 295

<210> 3103
 <211> 589
 <212> DNA
 <213> Glycine max

<400> 3103

agcttctaca ttcaatttcg agcttttcga tatattactg gactcaatcg gacatccgag 60
 taaaaagtta tcgtagtttg aatttgctca gggcttcaga attccatttc gagcgtctgg 120
 atatattacg ggactcaatc ggacatccga gtaaaaagtt attgttgttt gaatttgctc 180
 agagcttcgg tattccattt cgagcgtctc gatatattac gggactcaat cagacatccg 240
 agtaaaaagt tattgtagtt tgaatttgct cagggcttca gtattccatt tcgagcgtct 300
 cgatgtatta cgggactcaa tcagacatgc gagtaaaaag ttattgacgg ttgaatatgc 360
 tcaaagcttc tacattcaat ttcgagcgtt tcgatatatt acgggactca atcagacatc 420
 cgaataaaaa ggtagtgccg tttggaattg ctgagagctt caccaatcca tttagagcgt 480
 ctcgatatat taccggactc aatcagacat gcgagtgaag agttattgtc gtttgaaatt 540
 gctcagagct tcaacattca atttcaagcc gttcgaaata atacgggac 589

<210> 3104
 <211> 312
 <212> DNA
 <213> Glycine max

<400> 3104

cactattgct tactcaccct tcggagtttc caagtgccga ttcgtcttct tctttagtc 60

agtccttcttc tggcttcaat tcattagagg gctttccttc tgtgtccagc atcttgggat 120
 gttcccagcc tttgatgaca gctttccagg ttctgctatc cagtgatttg aggaaggcca 180
 ccattcttgc tttccagtat tcatagttgg ttccatcaag aattggtggg ctgttccactg 240
 gtcctccttc tttctccatg ttcacagaa tttatctccc tagatctcac tcagtgattt 300
 cgagtgcccg ct 312

<210> 3105
 <211> 295
 <212> DNA
 <213> Glycine max

<400> 3105

tgaaggcaaa ctggatgcgt tgggtcaactt ggtaaccag ctggccttga atcagaaatc 60
 tgtacctatc gcaagggttt gtggtttgtg ctctctgct gaccaccata cagacctttg 120
 cccttccatg cagcaacctg gagcagttga gcagcctgaa gcttatgctg caaatattta 180
 caatagacct cctcaacctc agcagcaaaa tcaaccacag cagagcaatt atgacctttc 240
 cagcaacaga tacaaccctg gatggaggaa tcaccctaac ctcaaattgg ccagc 295

<210> 3106
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3106

agcttcaaac tcgaagggtg aggacacatg aactaaaatt caattcatgg ggctccgaaa 60
 aagggtgaga atggagaatt gcactaagca ataactacgc atagctcaaa actcgaagg 120
 ggaggacaca tgaacaaaa ctcaattcat ggggctccga aaaagggtga gaatggaaaa 180
 ttgcactaaa caatcactac ccatagttcc aaactctaag gtggaggaca catgaacgaa 240
 aacgcaattt atggagcttc aaaaaagggt gagaatgggg aattacacta agcaatcact 300
 acccatagct ccaaactcca tgggggagga cacatgaatg aaaaccatat ntatggggct 360
 cccaaaaagg ttgaaaatgg agaatagtc taatgaatta cta 403

<210> 3107
 <211> 676

<212> DNA
<213> Glycine max

<400> 3107

agcttatagt tattggaggg agaataaaac aatccaaaat ctaattgtac ctttcaagta 60
acgaaaaatt cttttttgcg cttttagaag aagagagggg ggagcctcca taatagcgac 120
acacaactcc caccgtatat aaaatatcgg gcctttgatt ggatagaaac cttaaactcc 180
ccacaagact cttgaagatc ggggagtgta ctttctctct tcataaactt gataacttaa 240
gccaccttcc ataggtgtgt tcacgggatt gcaatcaaac atattaaatt ttttcaacac 300
tttttttggtg tacctttctt gtgagacaaa gataccattc tctgtttgct tcacttccat 360
tccaagtaa tatgacatga gtcccatatc tgtcatatca aattcacgag acatggactc 420
cttgaagtct tcaaacaaat ttgggttatt gccggtaaag ataacgtctt ccacattaag 480
acaaattaat aagacatctc cttattaaaa gttaaataa aagagcatac ttttcttgac 540
atgaacaaac ccattgtttg gaagattgtc aatgcgatat tccatgccct tgggcttgct 600
ttacacatac aagccttggtc aattcagaaa tttttcttg accttaagaa aaaccattgc 660
tgtcacataa cathtt 676

<210> 3108
<211> 297
<212> DNA
<213> Glycine max

<400> 3108

tgcattgattt acacctccct ctttctcaag caaattcttc ttgatatcat caaaatcttc 60
atgatttaca cctcaaact ctagtagggg caaattcatt tgaggggctg ccatttatga 120
gaatggatat agaagctgat tgattgcaag cattgatcca tttcctccat ataggacaga 180
acccattctt gaccatcata taatccagaa agttccatga aacagagtca taagcctttg 240
caaagtccac cttaaacc aaagttggtt acttacttct tttagcttcc tctattg 297

<210> 3109
<211> 297
<212> DNA
<213> Glycine max

<400> 3109

tttaactgaa ttgcaacat tccaaatggt ttttaaattgg tgtaatcgat taccagtgtg 60
tctgaacggt gaaattcaaa ttcaattgtg aagagtcgca tcttttcata aaatgcattg 120
tgtaatcgat tacatgggtta tggtaatcga ttaccagtga caagttctaa ataaaaagtc 180
aagagatgta actcttccaa tgggtttctc aagattttct caagggtata actcttccaa 240
tgggtttctt gacctgacat gaagagtcta taaaagcaag accttgaatt gcattca 297

<210> 3110
<211> 583
<212> DNA
<213> Glycine max
<400> 3110

agcttcaaca ttcaatttcg agcgtctcga tatattacgg gcctcaatca gacatccgag 60
taaaaagtta ttgtcggttg aattggctca aagcttaaac attcaacttc gagcgtctcg 120
atatattgcg agtctcaatc agacatccga gtaaaaagtt attgtcggtt gaatttgctc 180
agagcttcaa cattcaattt tgagcgtctc gatatattac gggactcaat cagacatccg 240
agtaaaaagt tattgtcggtt tggattggct cagagattca acattcaatt tcgagcgtct 300
cgatatatga caggactcaa tcagacatcc gtgtaaaaag ttattgtcgt ttgaattggc 360
tcaaagctcc aacattcaat ttcgagcgtc tcgatatatg acgggactca atcagacatt 420
cgagtaaaaa gttattgtcg tttgaatttg ctgagagctt caacattcaa tttcgagcgt 480
ctcgatatat gacgagactt aatcagacat ccgtgtaaaa gttattgtcg tttgaattcg 540
ctcataggtt caacatttaa tttcgagcgt ctgatatat tac 583

<210> 3111
<211> 582
<212> DNA
<213> Glycine max
<400> 3111

agcttatttg taaaaaacct ctaaaccta atttgtcaaa taccatttaa accccaatca 60
gtcaagtaat tctaaaccct tatctttcaa ataccctaa accataacta gcaaagaaat 120
ccaaaaatct aatttgtcaa ataaacataa accctaattg gtaaagtaac actaaacaca 180
aatttgtcaa ataccctaa accctaatta gtgaagtatc cataaacctt aagttttaaa 240

ataactataa accctaattg gtcaagtaac actaaaccct aattagtaaa gtaaaactaa 300
 accctaattt atcaaacacc cttaaaccct aattagtaaa gtaaaactaa accatgatct 360
 gtcaaata gctaaaccct aattagtcaa gtaattgtat ccctaatttg aaaataacc 420
 taaaccctaa acagtcaagt aacactaaac tctaattagt taagtacca taaaccccaa 480
 tttgtcaagt aaccctgtaa tccctaaatt tcaaatctc ctaaacccta atataataaa 540
 taacccttaa ccctaattgg tcaagtaaca caatattcta at 582

<210> 3112
 <211> 295
 <212> DNA
 <213> Glycine max

<400> 3112

ttgagccaat tcaaacgaca ataacttttt actcgaatgt ctgattgagt cccgtgatat 60
 aacgagacgc tcgaaattga atgttgaagc tctgagctaa ttcaaacgac aataactttt 120
 tactcagatg tctgattgag gcccgtaata tatcgagacg cttgaaattg aatgttgaag 180
 ctctgagcca attcaaacga caataacttt ttactcggat gtctgattga ctctcgtcac 240
 atatcgagac gctcgaaatt gaatgttgaa gatctgagcc aattcaaacg acaat 295

<210> 3113
 <211> 483
 <212> DNA
 <213> Glycine max

<400> 3113

agcttaccba tggcgtacct acaccatgcc caaattcaag ggacaaatta aatatatgcc 60
 ataagttatg aagcaaatta taaatatatc atgaatggtc cgcagtatga aatttctata 120
 tgccaaaaat cataaaatta aaaaaaattg cagcctgcat gatagggact tgactgtgac 180
 catgtgcatg tggttctttt ttttaacact gcaagttatg tactggcagt gtgggttgag 240
 actgaagata aggcagggtta ctttcaaagc acatgaaatg ggggtactcgt aaatcgtaat 300
 acttactctg gtgccgaata tccagtggtc cccaacatac ggggtggaac ctgaccgttc 360
 ctcttgtctg atcccatctt aggcaatcca aaatcagaca ccttggcacg catgttttga 420
 tccagtagaa cgttgttact cttgaagtct ctgtggatca caagagagac tgtttgttca 480

tgc

483

<210> 3114
 <211> 643
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3114

agctttttctc agtcgtctat aaggatgatt ggggtgttata aagcgggtgat gcctactgta 60
 gactattttt ctcccatggt taagttgtat gtaacttgta ttttcttcac agacggggca 120
 tgcgatgata cccttaacac tgtaaccgct gagattccca tatgctggaa agtcattaat 180
 ggtacaaaaa agcattgcac gtaatttcaa cgtctccttg cgaaacgcat caaatactac 240
 aacccctcgt tcccacaact ttctcagatc ttcaaccaac ggacttagat aaacatcaat 300
 gtcatttctc ggttgtcttg ggcccgatat catcatagac aacatcatgt attatcgctt 360
 catgcacaac caaggaggca aattgtaaat tactagcaga attggccatg aactatgttg 420
 agtgcttaag gtgccatatg gattcattcc atcactggct agtccaagtc taagatttct 480
 tggctcattc ccaaaatccg gatacaaacc atcaatcttc ttccactgcg agtaatcagc 540
 ccgatgacag accattccat cagaaatcct tcatttgcac gccatgtaan ggtctttgcg 600
 tcattctcgt tgcaaagaga cgcttaacct tggaatgatt gga 643

<210> 3115
 <211> 294
 <212> DNA
 <213> Glycine max

<400> 3115
 tctatttttt attacgagcg tctcgatata ctacgggaca caatcggaca ttcgagtaaa 60
 aagttattgt agtttgaatt tggaacgagc ttcttttttc aattacgagc gtgtcgatat 120
 attacgggac acaatcgtag atccgagtaa aaaggatttg tcgttagaat ttgctaagag 180
 cttatgtttt caatttcgag cgtctagata tattacgggt cacaatcgga catccgagta 240
 aaaagttatt gacgttagaa ttttctaaga gcttatgttt tcaatatcga gcgt 294

<210> 3116

<211> 540
 <212> DNA
 <213> Glycine max

<400> 3116

agcttgacag tgcttgattc attgaccagc aagtttggtc ctttgatata tctacagaac 60
 caaatcaact caaccatttt aacaaacttc aaacagcaat gccaaacaga ttttattagc 120
 aagatagaaa ggttgctttc attaaacatc cttgtcacct gtggatgggt ttgttactat 180
 gtaagtaagc taatcccgaa agaatatgcc ttgtaaaatt gcaaaccaca gattctgtca 240
 tagctccaca atgttcacgc ataaatttac tgattgatcc cgggtagaca tactccatat 300
 atatgtacaa atgatcgcca acctgaaaat acaaagtctt caaaacgtca atctaattta 360
 ctatgacaaa tacccttaac tttccattgg gttgtatcga ttatacttgg aacaaaaact 420
 taacaaccaa gaattaactc actgtttcac ttccataata ctgcacaatg ttgggatggg 480
 gtagttgacg gaaaattttg atttcctgga acacagaact ttttagaata acagcctaaa 540

<210> 3117
 <211> 291
 <212> DNA
 <213> Glycine max

<400> 3117

ttaactcgga tgtccgattc aggcgcataa tatatcgaga cacttgatat tgaataacag 60
 aagctctcga gaaattcgaa tggtcataac ttttcacacg gatgtccgat tccggcgcat 120
 aatatgtcga gacgctcgaa attgaacaac ggaagctctc gaaaaattcc aatggtcata 180
 acttttact cggaggaccg attcacgcgc ataatatata gagacgctcg aaattgaaga 240
 acggaagctc tcgagaaatt caaatggtca taacttttaa ctgagaggtc c 291

<210> 3118
 <211> 456
 <212> DNA
 <213> Glycine max

<400> 3118

agcttctcga tacattatgc gcctaaattg gacattcgag ttaaagggtta tgacaatttg 60
 aattgctcta gagattccat tgttcaattt cgagcgtctc gatataattat gaatttgaat 120

cggacctccg agttaaagt tatgaccatt tgaatttctc gagagcttgc gttgttcaat 180
 ttcgagcgtc ttgatatt atacgccaga atcggaactc cgtgtgaaa gttatgacca 240
 tatgaatttc tccagagatt ccgttgttca atttcgagcg tctagatata ttatgcgccc 300
 gaatcggacc tccgtgtgaa aagttatgac tatttaaata tctcgagagc ttctgtcgtt 360
 caattccgag cgtgtcgatt tattatgctt cgcaaatttg gtctcgaggt aaaaggaatg 420
 accattggaa tttctagaga gctttcgtta ttcaat 456

<210> 3119
 <211> 554
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3119

agcttaatac accaattatt aatttttttt taatagattg taggtatttt atatgaaaga 60
 taatcttatt taaactggat aaataagata attataagt ataaaactct gtctccaaat 120
 atttaacgta attatatatg taagactaat taatctaaaa taactttgca tgattaacat 180
 actcagtgtc ataacactaa tagtttggtg ataactaatt cattgataaa tattataaaa 240
 tcatcaatat ttgagagtat tagaataaat ttacttcgt attagaataa aattaattag 300
 atgcaaacct attaacgaaa tgctttaact tcaccaaata tgtgattatg aaagcaaagg 360
 gtagatggca gaagaaagag caggataaat accatgggac ggtggcattt gagaagtgat 420
 tggaaaggaa gcaggggcac ttgtgcggaa ttgactntga aatcttcata attagggcca 480
 ctagaagaca taaaattatg atctatcttt gattccaaag ntcgtagttg gtgtgattct 540
 gcttacataa tgac 554

<210> 3120
 <211> 395
 <212> DNA
 <213> Glycine max
 <400> 3120

tggatgtaga tgacgatatc tatacagatg gatcttatat atctatatat ctatagatag 60
 atatatagat gtagatatat agatatagat catacaatga agtaccgcac gagtgggtat 120
 ataggaatcc aaatctgccg aatcactcat gttatgatct tctacatcct aggtcttccc 180

gttccttcat ctggcttatg ttcttcatgt agcattcaga ctgaatgact ctatgaaatt 240
 acgtcgctac ttccacatgg tacgggtaac gtaggagaca tctctatfff tctcgcggg 300
 aatccttaga attaccacag cttagctgtc aattcgcctc tgaccatcag atgaaatgtg 360
 aataaccgt cctccctctt ttgaaacttt gaaac 395

<210> 3121
 <211> 217
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3121

accgcttaga ataaagaaca caattatatt tgctgagaag tgccaaatng tattcatagc 60
 atctttgctg cgccgtttga ttaattggaa tgtttcttta tacattccac tacgcacgtt 120
 ntgcagatgt gtttccggac attcctttta catgtcatct aagaaaaaca gttgcttaca 180
 ttctatgaat ttttttagaa tactcttttc ttttaata 217

<210> 3122
 <211> 398
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3122

tctctatcca atcctttgaa gaaacatgca atgtcttaaa aaatgtcctt ttgagaacag 60
 tctaagccat cataacttaa ttttaatacc ttatgaattn tcatatttga aatctttntt 120
 agttttctca attcactttc tcatgcttct ttacttcttg aacgaaaact tacacccaaa 180
 actttttaaag ccaaaggaat acctttgctc taagaaattg ctcttcttga ttgaacctca 240
 tatccatctn taggggtgat ttctccaaaa acagtcaaac agaacaactg aagagaatgc 300
 tcagagctca aatcttgac ctgatatatn tcatcaattg ggctaagtat ttgcttgttt 360
 ctagttgtaa caatgacct acttgctggg tgacactc 398

<210> 3123
 <211> 431
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 3123

agcttgcctt ggcccttgat atatttgagg gactcatggt cactatgaat gacaaattcc 60
ttgggataaa ggtagtgttg ccatgttttc aaagcccgt aagggcata caacttctta 120
tcataagttg aataaggaaa ggcaagacca cttaactttt cactaaaata agcaattgga 180
tggtcttctt gcatcaacac agccccaatc ccaacatttg aagcatcaca ctcgaattca 240
aaagattttt gaaagtttgg caacgcaagt atggnngcat taattaactt ttgcttaata 300
acattgaaag cttcttcttt gttctctccc catctgaaac cacacatttt cttgagcact 360
tcattgagag gtgctgcaa tgtgctaaaa tccttcacaa atcgtctata aaaactttct 420
aagccatgaa a 431

<210> 3124
<211> 386
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3124

tatgaacat ttaattttctc gggagtttcc attgttcaat aaccaatgtc tcgatatatt 60
atgcacctga atcggaaatc caagtgaaaa gttatgacca tttgaatttc tcgagggatt 120
ttgttgttca attttcagtg tctccatata tgggtgtgct gaatcggacc tccgcgtgat 180
aacttatgac catttgaatt tcttgagaga tttcgttgtt caatttcaag cgtctcgata 240
tatgatgcgc ctgaatcgga catccaagtg aaaagttatg accatttgaa tntctcgtca 300
gcttccgttg ttcaacttcg agcatctcaa catgtgatgt gcctgaatcg gacctccgtg 360
tgaaatagta tgaccatttt aatttc 386

<210> 3125
<211> 444
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3125

taatgtacta agtcctccaa ctccacataa ttntgcaact ctgcaacatc ctttatatca 60

ctatttaacc catgtagcaa acaagccata gtagcctctc aatcctccgt aacattagct 120
ctaactcatgg aaacctncat ctccttataa tactcatcaa aacttatact accttggtg 180
agtctttgta gcttggtatg aagggtttctt tgataatgag aaggaacaaa tcttcttttc 240
atcaacctct tcattttctc cctactatcc accaagggtt cttcatatct cgccctttcc 300
ctttgtaatt gggtccacca gatgaaagca tagtcagtga attctatggc taccaccttc 360
atctttgtat ccttagtgta attgaggcat gcaaatagcc gctcaattnt catttcccac 420
tccaaatatg cttctggatc actc 444

<210> 3126
<211> 472
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3126

gcttcgacgc tcaatccctg gtgcctnttc cttggtgaat gaagaatctn taaaatcaat 60
tgccaataaa gtgctcaaaa attgtagttt gtcaaaaact tcaatatcta agattggatc 120
actgaactct gtaactgaca aatgacgagt ctttatacca atcttggttt cttttccaag 180
ttcttctgat ctgaaataga attctccacc aagggtataat gctagatcat gcacgagatc 240
atgcattaca aaataattgc cccaagtttg attacttgaa cgttgaaaaa atgatcttga 300
aactaagtca tcaaaatact cgtaaccaac ttctaacgcc tttcctctgt ttggaagctt 360
caaaagatct tcagccatcc acaacaagat caagtccttc tttcgaaatt cataatcttt 420
acggcataat gaacactaaa caaagcaccg ttgtaaatgt ggagggagat at 472

<210> 3127
<211> 296
<212> DNA
<213> Glycine max

<400> 3127

agcttctcga tatattatgc gcttgaatcg gacctccaag tgaaatgtta tgaccatttg 60
aatttctcga gagcttctga tattcaattt tgagcgtggt gatatattat gcgactgaat 120
ctgacctccg attgaaaagt tatgaccatt tgaatttctc gagagcttcc gttgttcaat 180
ctcgagcgtc tcgatataat atcctcctga atctgacctt cgtgtgcaaa gttatgacca 240

tttgaatttc tcgagagctc tcctgttca atttccagcg tctttatata tgatgc 296

<210> 3128
<211> 375
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3128

agcttatgct gcaaatatnt acaatagacc tcctcaacct cagcagcaaa atcaaccaca 60
gcatagcaat tatgagcttt ccagcaacag atacagccct ggatggatga accaccctaa 120
cctcagatgg tccagccctc agcaacaaca acagcagcct gctccttctt tccaaaatgc 180
tgctggccca agcagaccat acattcctcc accaatccaa caacagcaac aaccccagaa 240
acagacaaca gttgaggccc ctccacaacc ctctctcgaa gaacttgtga ggcacatgac 300
tatgcataac atgcagtttc agcaagagac cagacgcttc attaagagct taaccaatca 360
gatgggacaa ttagc 375

<210> 3129
<211> 453
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3129

cctgtcacta tacttgatta tntaaatggt caattaaatt cattttttat agagcatgta 60
tacaccgttg gaaatagatt ttttcagact agatatcatt attataaatg gtttttcaat 120
caaataattta atataattac atattctaata tttaatttga gacctctaata taaaatcaat 180
aattttgatt tattaatata caattaaata tgagaacaat acataaacta gtgattattt 240
tttcttggtt gaaaaaagaa cttatagttt gacattaaaa acctatgaat gggatataca 300
taataaaata attaattcta tactttataa taaaagagat atacttaatt actaatttgt 360
aatntatca attttttatc tatgaattga agacaatggt aggatttaca attaggatat 420
actttatatg atgttcaatc aattaagtta atc 453

<210> 3130
<211> 419

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3130

nggatttcct cttagtaggg aatgtatcct tcctaagatg gagccaaacc cagtcccgct 60
 cattaagaaa tagctccttt cttcctctat tgcctttagt tgcatacacc tttgtttggt 120
 tctttatttg gttcctaacc ctctcatgca acttctttac aaactctgac ctagattccc 180
 cttcaatatg cataaaagaa gtgccaagtg ggaggggaat tangtctaata ggtgtagag 240
 gattaaaccc atagacaacc ttaaaaaggg attgcttggt ggttctatga acccccttgt 300
 tgtaggcaat ttctacatga ggaagatacc catccaaga cttatggttg cctttcagaa 360
 gagcccttan aatggtgtat agagacctat tcactacctc tgtttgctca tcagtttat 419

<210> 3131
 <211> 299
 <212> DNA
 <213> Glycine max

<400> 3131

gctggagctg ctgcacatga tgccccacc tatgtccaaa aataagatcc ggctgcacaa 60
 tgcacaacgc aagatatagt gtcacatgaa caattgcagc ttgccgattc acgatgtcgg 120
 atacaatgtg cacaacatcc ctgccccaaa tactggagtt gctgacagca tctgaaagtt 180
 gccgatccac gatgtcggac accatgtcct gcacttcggc ccgacaatac tggacatatt 240
 aatctgctat atctttaaca gactattgag cagtagcaa gagataacat gatctatct 299

<210> 3132
 <211> 433
 <212> DNA
 <213> Glycine max

<400> 3132

gtctcgcacg atatggcagt ctatttcaat gtgtttagtt cgttcgtgga aaatatggtt 60
 tgaggctatc tggatggcgg actgattatc acaatagaga gttgcagggt gaaggaaggg 120
 gaccggaaaa tcatgaagga ggtaggtgag ccaactgaagt tcacacgtag tagaagccaa 180
 agctctatac tctgcctcag atgaactgag agagaccgta gattgcttct tggaccacca 240

ggaaattaga gactcaccca gatagactga gaagccagt atggagcgtc gtgtgtcgca 300
 acatcctgcc caatcggagt cactgaaagc tgtgagagt agtgtacctt gagccacgaa 360
 gaagatgcc gaaccaggag ttcctttgag gtaacgtatg acctatatag cagcttgtga 420
 gtgcgtggaa gtg 433

<210> 3133
 <211> 216
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3133

cttactaacg cacctgttct agctctctct gatatttcta aaattgctga gctagaatgt 60
 gatgcctctg gagtgggagt tggagctgta ttgttacaac gtgggcaccc tattttttat 120
 tntanagaaa aacttcatag tgccaccctt aactacccca cgtatgataa agagctttat 180
 gccttaataa gagccctcct gacttgggaa cattac 216

<210> 3134
 <211> 389
 <212> DNA
 <213> Glycine max

<400> 3134

agcttgcccta ataaacaagg acacaacaag agacatgaat cttataaata taaatataga 60
 tacacatgca cggtaaaaaa cttacattat aataagaggt gacaagatca ttataccata 120
 tataacatta acataacaac ataaatgttt aattaaagaa aaaactaata tttaataaat 180
 tactatcatt attagctatt gctgccttca tttgcgtcta attatttgta ttacttattt 240
 tctattcaaa ctaaacctgt tcataacgca ataaaaattc taaagggtca cgcacagctt 300
 tctgcaactct ctgtctctta cctatttgac agtgtgtata tatatatatg agatacactt 360
 cccccgttt tatgtcttaa aactccgc 389

<210> 3135
 <211> 416
 <212> DNA
 <213> Glycine max

<400> 3135

agcttgcaact cttaggggac atgatgaaag tgtgttatct ggacaccgtg gcaactctct 60
 tgaaatgata aagctcttat cttcttataa tacggaaata gatgaaatta tctcggacaa 120
 cgccccctcac aatgtaagat acatttcact cactatccaa aaagatattc tatatgtctt 180
 tgctagaaaag gcgcgagatg aaattcaaga agagatcggg aacgcaaaat tctcgttcac 240
 tgttgatgaa gcccatgatg aatctaaaag agaacaaacc actctagctc ttagatctcg 300
 cgataagaat ggatatgtct acgagcattt cttggatatg atacatatgc cagatactac 360
 atcatccatt cttaagcacg ggatatgtct cctattgcct catcataatc tcaaca 416

<210> 3136
 <211> 377
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3136

tatacggcct aggatgtggt tntgtgatta aattcaatta agacacaagt cttgcacttg 60
 ccacattggt acaactccct ccatcaatga tcaccatgca aactttgcca ttgatcaaac 120
 atctagtgtg gaaaatgttt tctctttgac tttcctccat agacttcaat tattggccaa 180
 gtaaccgcct aatcatcaac aattctccct ccagtgtttt ctccacttcc tgctcatcat 240
 cctcactctc ttctcccttt tcaacttcgg actcactaat gtactctcca tctctaagaa 300
 tcatggctgt cttgttaggg aactcatatg cataatgttc caagccttgg caccgaanac 360
 acttcacatn ctggctc 377

<210> 3137
 <211> 498
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3137

tgtattctta ggaatcactn ggactagact caccacccgg ctatcagaaa tggngtagat 60
 gattccaact ggcaagagct tggtcacctc cttntcacc acatctagaa tgatgggggt 120
 aagtcgtcga tgtggctgcc tcaactggctt agctccatcc tctaaaagta tcctatgcat 180
 gcaggtagat gggctaatac tangaatgtt tgctaaagtc catccaatag ctttcttgtg 240

cttctggagc actaacaaca acttctctctc ttgctcggca gtaagggagg cagagatgat 300
 cactggaaat ttttcttgt cctccaagta agcatacttg aagattgctg gtaagggctt 360
 caactctgat gtgggtggtg gctgaatagt gggaggaacc anggtaggag aagaagagga 420
 gggttccttc acctgtacct cataaagcaa gtcataagta tatgtacctt ctgcaacatg 480
 gttagtgcac tatgactc 498

<210> 3138
 <211> 360
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3138

agcttgtaga tccaccgaac gtggaggaca agatctgtgt tgtgcctcat ggcctttcca 60
 ccgattcaga tgtccgtaag atgtgcgcat tgntcgattt ccctttctct ctcgttctct 120
 tgtttttttg cgtataagcg tgcgtgtggt gttgcgactg aaagggaggc gtatatgatc 180
 tccaagagat ctctccaag caatgcggag aagtttgagt tccaagccga agtgtcgtgg 240
 ctaccttagg gattgtgttc tgcccaaaa accctaatac acagcccatt cacagcctca 300
 agggccatca tgggcgacac taactatatc tgtccgctcc acataaataa taattcacga 360

<210> 3139
 <211> 285
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3139

ggatctctaa gtcantgag gcatgcaagc ttgtgaccat ttgaataact caagagcttc 60
 cttgtntcat ttgaccgtc tcgatatatt atgcgcctta atccgacctc cgagtgaaaa 120
 gtcatgacca tttgaataac tccacagctt ccattgttca atttcgagcg tctcgatatc 180
 ttatgtgccc gaatctgaac tccgctgaa aagctatgac catttgaatt actcgagagc 240
 tttcgttggt caatttcgag cgtctccata tcttatgcgc ctgaa 285

<210> 3140
 <211> 413

<212> DNA
<213> Glycine max

<400> 3140

agcttcttct tgtttctctt ctcatttgac accaatatctt ttctcgagca cttcatcgag 60
aggcgctgcc aatgtgctag aatacttcac aaatcgtcta taaaaacttg ctaagccatg 120
aaaactcctc acctcggtca cagacttagg tgtaggccat tctagaatac ccctaacctt 180
cttctcatga acttgcactc cttttgaact cacaacacaa ccaagaaaca caacatgggt 240
agaacagaag atgcattttt caagatcgcg atacgagtgt tcttttctga gcacaggaaa 300
gacagagttt aaatgatcaa tatgccaatc aagtgaagtg ctatccataa gaatatcatc 360
cgagtacaac acaacttatt tttctatgaa ctctgtgaag atatgggtca tta 413

<210> 3141
<211> 399
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3141

cgaagtcgat tctacgacct gttttcttca ctctgaattc ttttgctana tttaaccttg 60
caatcacagt ctcatagtca actcgattgt tagaagtttt gatattaaac cttaatgatt 120
acttgagtga gatatgtcca ggtccttcaa gggtgattcc tattccacta ccattgaggt 180
tactagctcc aacaacatag agcatacacc aatcacctct gtcactacta ctcgattcat 240
atggaagctc taccatgatg tagaccatac attaagctct aatgggtcct tgtgggctagc 300
tccatggacc atgcaaccat tctttcaaca agctctggct tttgaagcac tagtctaata 360
ggatgagtgg tcttgactct gatcaactga ctttggaag 399

<210> 3142
<211> 346
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3142

agcttgcata agtaattntc tagcatccat caatatatag tactttgagt gtcaccat 60
gtattctgcc caaggctgac actacattat ctgtctagtt ccaccaacca atgaggttta 120

cattgaccag tctagcctaa caattatgca aaagggggag aagaccaca tcatttatgg 180
catagacggt aatcacatta agatgctgaa gtcaagacac aatctgaaca attatgactc 240
ggctagcatt gataaaacca cgtcactttt gaattactaa acgtccaaga gactcgcacg 300
gagaaagcat acaccctttc atatcgatat atttgactcc catgca 346

<210> 3143
<211> 388
<212> DNA
<213> Glycine max

<400> 3143

cctgactcac catatacctt gaccacggt gagaatgcca atccttacc tcggaagcga 60
aaaaagaata gaggggaaat ttgcatcaa agaataagag aaggagaatt tccaatgaaa 120
gcataaaaga aatgaaggaa aattcccaa tctaagagtg ggagaaagca aaacaaggaa 180
aagaacgaaa attcctcaat caaagagtgg gagagagcaa aaagaaaaga aaggaaaatt 240
ccctatcaaa gaatgggaga gagtataaca ggaagaagaa gaaggagaga aagctcctga 300
tcaaggatcg aaagaaccag aagaaatgtg cagagaggtc ttgggaccag acaatatctg 360
aacagtacag aattgtcacc aaatgaac 388

<210> 3144
<211> 455
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3144

tgagcattca atactctgat gaggggtgttc catatgttct caatactgga ctaatacatt 60
tgctgcccaa gtttcatggt cttgcaagag aagatcctta taagcatctt aaggagttcc 120
atattgtttg tttcaccatg aagccccctg atgtctacga agatcatatc tttctaaagg 180
cttttccaca ttactggag ggagtggcaa aagatcggct atactaccat gctctcagat 240
ccatctccag ctgagatgac cttgaagagag tggtgttgga gaaattcttc cctgcatcta 300
tgaccacttc catcagataa gacatttcat gcatcaggca actcattgga gagaacctat 360
atgaatacta ngagagattt aatatattat gtgccagttg ccctcaccac cagatgtag 420

agcaacttct tctccaatat gtttatgaat gactc

455

<210> 3145
<211> 387
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3145

agcttggtnt anaccatata tagatctatc taagcttgca taccatacgc tcagcactat 60
tataggagaa accttcccggt tgcctcatat aaacctactc ctctaaatca ccattaagaa 120
cagctgtttt cacatccata tgctgcttct ccaggacaaa atgagcacct aatgctctta 180
ttatatgaag agaatctttc ttatatactg gagaaaaagt ctctttgcaa tctattgctt 240
ccttttgagt aaatacctta gcaacaagnc ttgccttgta tctctcaatg aagactaatg 300
aatccttttt ggtcttaaag acccatttac atacaatagc ctctcgccca ttacgcaact 360
ctacaacgct acacactttg gtactct 387

<210> 3146
<211> 460
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3146

agcttgaaga taagactata cgaggatatct tccttgggta tagcaatatc tctcagggct 60
accatgtcta caacttgcaa actaagaaac tcttcatcag tcgagatggt gaagctgatg 120
agtatgcttc ttggaattgg gatgaagaaa aagtggagaa gaatgttctt ataccgctc 180
aactacctca agaagaagtt gaggaagaag acccaggtga accaccttca cctccaccac 240
aacaacaaga tcaagaacta tcatcaccag agtctactcc aagatgagta agatctttgg 300
tggaacatata tgaaaccagt agcttggcca tacttgaacc tggaagcttt gaagaagcgt 360
caaagcagga agtatgggtc aaggcaatgg aagaagagat acagatgatc gagaanaata 420
atacatggga gtatgtaaat catcccatg gaaaagatat 460

<210> 3147
<211> 446
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3147

tctctggtggc ttctttgaga agtttttctca agaggcttct ntgataagct acatccttat 60
ctatccatcc ctctattaac taaattaact tccttaagaa taattacgga tgaaaataac 120
gcaacaaata atcaaacatc aaacataatt actaataata tatagatata tatatcacgg 180
tgttacacat catatattga gacgctcgaa attgaacaat ggaagctctc gagacattaa 240
aattgtcata aattntcaca cggatgtccg atcatgcaca tcagatatcg agacgctcga 300
aattaaaaaa acggatctcg agaaattcaa atggtcataa gtttcacacg gaggtccgat 360
tcaagcacat cacatatgga gacgcccgat agtgaaccac ggaagatctc gagagattca 420
aatggtcata acttttctact cagatg 446

<210> 3148

<211> 442

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3148

tctntcttga cagntgatgc tagatccnca tctgtaaagc ctgtaacatc tcccaacgta 60
gcaacacatt caaaatctga aactgatatt tgtgtttttc cttgtgaagc atagtacaac 120
tttttcaata ttaggcttcc atattccaag tttaaagtgt cattgacaat ctataacaat 180
cactcagtgc tctgataatt ttctttacta attgaaaatg gcaattcttc ttttctaatt 240
tgttggctat atatcttttc ttctgctttt taatttggca gctggcattc ccaaaaggcc 300
ttacttctgc tcctggaaga ccaagggtgg ctccaagcag tccagtcata ttgacgtta 360
gtttggaata tataccggcg cttgaagcgg atgaggagta aaataaggct gtcctttgta 420
cgtgatcagt cttgatttta tg 442

<210> 3149

<211> 405

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3149

ngcacactan accttcttta ggagttgtaa aaccaggtgg cactatcatg tagacatctt 60
 caagtagatc accatgcaga aatgcgttat ttacatcgag ttgatgtaaa aaccaatttt 120
 tagctgttgc taacgcaaga actagtcgaa ccgttgtaag tttaacaact ggagaaaagg 180
 tctcagtgtg atcaacaccc tcaagttgcg tatatccctt ggcaacaaaa cgagccttat 240
 acctctctat acttccatct gctttcctct tgatcttata aaccatttta gaaccaatat 300
 gctgtttacc aaaaggcaag gcagtaagag tccagttttt gttactctcc aaggctgcaa 360
 tatctttttt catagcatgt ctccaacaag catgtttcac agctt 405

<210> 3150
 <211> 434
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3150

agaagaaatc acatgtntgt catcatcaaa aagggggaga atgtgaatgt atgtatacat 60
 gattttgatg atgtcaaaag aagaatcaat caaggctcat cttgcttcaa gattaatata 120
 agattgtttc aacaaaaaaa gccttgattc aagatttctt caagatcaag ccttgcttca 180
 caatgaaagg tttcaagtca ttcaaggcac atgtaatcga ttaccaatac atgtaatcga 240
 ttaccaatgg tttgaaagtg tgtaatcgat tacacatcat atgtaatcaa ttaccagaga 300
 ctctgaacat tgcgaattca aattntaaat gaaggggtcac aactgttcaa gacaaacaat 360
 tgtgtaatcg attacactaa ttctgtaatc gattaccaga gaagatttca aggaatatcg 420
 ccacagtcac atct 434

<210> 3151
 <211> 480
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3151

atgcactatt caatggagtt gacaagaaca tcttcagact gatcaacact tgcacagtgg 60
 ccanagatgc atgggagatc ctgaatatca ctcatgaagg aacctccaaa gtgaagattt 120
 ccagattgca actcttggct acaaaattcg aaaatctgaa gatgaaggag gaagagtgtg 180

ttcatgactt ccacatgaac attcttgaaa tggccaatgc ttgcactgcc ttgngagaga 240
 ggataacaga tgaaaagctg gtgagaaaga tcctcagatc cttgcctaag agatttgaca 300
 tgaaagtcac tgcaatagag gaggcccaag acatttgcaa catgagagta gatgaactca 360
 ttggttctct tcaaaccttt gagctacgac tctcgatag ggctgaaaag aagagcaaga 420
 atctggcttt cgtgtccaat gatgaacgag aagaagatga gtatgacctg aatactgatg 480

<210> 3152
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3152

agctngaagc tnggcctgaa tagaatgagc acatgcagca cttngcaag caagcaaat 60
 gtcactctgca tagaccaaca gaacaaccag ggaagcacct ttgccaatgg tcaaaagaga 120
 atagtcattc tttgattgag agaaaccatt agcaattaat gttgttgaga gtttacaaaa 180
 ccactgtcta gaagcttgtc taaggccata aatggatttg ttgagcctgc aaacaagatt 240
 ttttatcaac tgaagtgtac ccttttgga gttccatata aacttctca aatatatcac 300
 cattcaagaa gacattatcc acatcaagtt gtaagattgg ccatttttta gcagctgcaa 360
 cagccaaaag gactttaact gatgtaagtt tagcaactgg agagaaagta tcagaanaat 420
 caatac 426

<210> 3153
 <211> 462
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3153

agcttaatca tgtttntaga ttaaaaaagg ctttatatgg cttanagcaa gccctaggg 60
 cttagtatga gcgtctgagt aagttccttt tagaaaagga tttctctaga ggcaaagtag 120
 atactactct tttcataaag agaaaattac atgatatttt attagttcaa atttatgttg 180
 atgatattat ttttgatct actaatgaat tattatgcaa ggaattctct catgactgca 240
 aagtgagttt gaaatgtcaa tgatgggaga acttaatttc tttcttgat taaaaattaa 300

acaaaccaag attcgaattt ttgtcaatca atccaagtag tgcaaagagt taattcatag 360
 atttgggatg gaaaatgcta agcacatggc tacaccaata agcactgctt gctatntaga 420
 taaagatgaa accggtcagt caatagatgt taagcaatat cg 462

<210> 3154
 <211> 414
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3154

tgtttggaaac tacaattgggt tcctatggac ttntaaatta caaagatagg ttgaaataat 60
 tttaatgaaa atgtgaaagg accatataat tttttcgttg ttatatattt ttgctttaaa 120
 atatgtgaag gaagaaactt gggctgaaaa ttcaagtcca gatcttgctg tggtaaaata 180
 tatgataata atcacgtgac cataagaaag tatatgataa taattaatca agtcttgaaa 240
 atcagttttc tcaattaagc atattactaa tatgcacctt tcattgatgg atgataaaat 300
 tatgggttaa taaagtttaa ttgttaant aaagttagat tattgggttg caattcttaa 360
 aatgagactt tgtggtaaag aaagtcttga gttgttcaag tgataaaaaa gctt 414

<210> 3155
 <211> 448
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3155

ctcagcttga ggtattaaac tcctatgcta cttataataa ttataacaac gggtttataa 60
 tgcttaacta tttaccaat ctaacattta ataattgaat ttcataaaag aaaaaatagg 120
 ttatacaaac agttttatat catcatctaa tcacaatcca acatatatgt tatatttgct 180
 gattttatga taattatttt aaaagttata tcaacagtga ttataatta gatagcagt 240
 ttaaattatt ccgtactatt agtgatataat catcactact acaaaaatta tattttaaga 300
 tgcgaaatcg atgacgctt ttaagaaccg tcttaaaatt gaacagaatg gcaattttgt 360
 aaataaaana agatatacaa agatgattta taaaaaatcg tttaaaaaat gaatgttaaa 420
 gccgatcatt aaaaccgtct taaataca 448

<210> 3156
 <211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3156

agcttatgct gcatatattt acaatagacc tcctcaacct cagcaacaaa atcaaccaca 60
 gcagagcaat tatgaccttt ccagcaacag atacaaccct ggatggagga atcacccctaa 120
 cctcagatgg tccagccctc agcaacaaca acagcagcct actccttctt tccaaaatgc 180
 tgctggccca agcagaccat acattcctcc accaatccaa caacagcaac aaccccagaa 240
 acaaccaaca gttgaggccc ctccacaacc tttcctcgaa gaacttgtga ggcaaatgac 300
 tatgcagaac atgcagtttc agcaagagac cagagcctcc atttagagct taaccaatca 360
 gatgggacan atagctaccc aattgaatca acaacagtcc cagaattctg a 411

<210> 3157
 <211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3157

agcttgcaaa cgcaatcaag catggcattg tatgacccca cactaagctc aaaccaccca 60
 cgatacatct caccggcgag cctttgagct tcctcgagct tcccatcaac gcaccacct 120
 ttgatcaaca tatcacagt ggcttcgctg gggaaaaaca ccttcgcca atccttaacc 180
 attttttccg cgtaactagc gaaacccttc gaacacagct tctccacgac cacttttaag 240
 gaagcacgat cgcgcttcag cccgtagtct ctctccattc gctcgaagaa ctgaaccgcc 300
 tggctggggc ggcccgcgcg gacgaagcgg tcgatcgcgg aggctanggt tttggggccg 360
 gcggcgnggg aagcggcgga gaggacgtca tgcgtggcct tgaagtcctt acggcggcc 420
 aagtagt 427

<210> 3158
 <211> 423
 <212> DNA
 <213> Glycine max

<400> 3158

agcttatgaa acctacagaa aacatgatat aatatgtcaa aataagacaa ttgtatgatt 60

gtcgaaggagg aaattaaaaa aaaaaaaaaa aaaactaacc atgttgatg gcattgtgctt 120

aaatctgtga taactgtagt aaaaacaatc ttctttaaaa gaccctttga ccttaaaatt 180

cgaagtggaa cgtgctgcat cagtggatgc aactgatta ttatatctgg ctgatatttc 240

attaggcctt tggcaacctc gctgtaaaaa gagaaaagat attttaacta tgacatgtga 300

tgttacattg tatttgagaa gagatacgca tgcacaagaa agtattttct gaaccatgga 360

atgcagaaaa agtcaataaa ttgtgtctaa tattaacaca atgcacaaca aacattgcta 420

gct 423

<210> 3159

<211> 448

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3159

agctntaact taagtgttag atcaagtggc ctcaaaataa ttaagaaggg ggggttgaat 60

taattattaa tgaaccttga ctaattaaaa ttacccttc ttaggctttt actatgttgt 120

taagaaagta aagaacagaa atataaactt aaccaaagt aaaaacggta attaaagtgc 180

acagcggaaa ttaaagagt aggaagaag aagacaaaca cacaagagt ttatactgat 240

tcgacaacaa cctgtgccta caagcaacct gcggctcttg agatttcttt tcaaccttgt 300

aaaatccttt acaagcaaag atccacaagg gatgtacct cccgtgttct ctttgaacaa 360

cctagtggat gtacctcca ctaganatga tccacaagag atgtaccctc tcttggcttc 420

agtcacaaca acccaagaag atgtaccc 448

<210> 3160

<211> 379

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3160

tatacgggct aggatgtggn tntgtgatta aattcaatta agactcaagt cttgcacttg 60

ccacattggt acaactccct ccatcaatga tcaccatgca aactttgcca ttgatcaaac 120
atctagtgtg gaaaatgttt tctctttgac tttcctccat agacttcaat tattggccaa 180
gtaaccgcct aatcatcaac aattctccct ccagtgtttt ctccacttcc tctcatcat 240
cctcactctc ttctcccttt tcaacttcgg actcactaat gtactctcca tctctaagaa 300
tcatggcttt cttgttaggg aatcatatg cataatgttc caagccttgg caccgaanac 360
acttcacatc ctggctctt 379

<210> 3161
<211> 407
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3161

ntgagcanat tcaaacgaca ataactntnt actcggatgt ctgattgagt cccgtaatat 60
atcgagagcg acgaaattga ttacagaagc tcttagcaaa ttcaaaagac aataactttt 120
tactcagatg tctgatagag tcccgtaata tgtcgagacc ctcgaaattg aatgttgaag 180
ctctgagcaa attcaaacga caataacttt ttactcggat gtctgattga gtcccgtaat 240
atatcgagac gctcacaatt gaatgttgaa gctctgagca aattcaaacy acaataactt 300
tttactcgga tgtctgattg attcccgtaa tatgtcgaga cccttcgaaa tgaatgctga 360
aggtctgaga acatcaaacy acaataactt tatctcgatg tccgatg 407

<210> 3162
<211> 436
<212> DNA
<213> Glycine max
<400> 3162

agcttcaaca ttcaatttcg agggctctga tatattacgg gactcaatcg gacattcgag 60
agaaaagtta ttgtcgtttg aatttgctca gagcatcaac attcaatttc gagcgtgtcg 120
atatattacg ggactcagtc agacatccga tttaaaattt attgttgttt gaattttctc 180
cgaccatcaa cattcaattt cgagcgtctc gatattacg gggactcaat cagacatccg 240
agtaaaaagt tattgtcttt tgaatttgct cagagcttca gcattcaatt ttgagcgtct 300

cgatatatta cgggactcaa tcagacatcc gagtaaaaag ctattgtcgt ttgaatttgc 360
 tcagagcttc cgtattcaat ttcgagcgtc tcgatatatt acaagactca gtcagacatc 420
 cgagtcaaaa gttatt 436

<210> 3163
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3163

agcttcaacg gagtggtcgg gtttatgtgn gaatattcat tcaactgcata tcgtagcttt 60
 ccattaatta tggctataga atttgccaac acatgtgttc tttgaacagg gatgggtttca 120
 tagtggaatg agccctgagg attcggtcga gctgcatttg ctgtcaaatt cagtcttcag 180
 aacaacacaa tagaacacag tcagagccaa tgatcacaag atccccaatt attttttttt 240
 ttgtttatag gtaagaatca aaaaattcat aaaactgata cacattactg aattaactaa 300
 gaaaatatgt tctattttacc ttctaataata aatgttttaa cattataaac ttaacaatgt 360
 catattttcca tttcattttt attttttatat taaatatata aataaagtaa caaacgtata 420
 tcnttttact attctatata 440

<210> 3164
 <211> 453
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3164

agctngaagg taaactacat gccttggtta acctggtaac ccaactgtgt tggatcaatt 60
 ggtctcagaa taattaagaa ggggggggttg aattaattat tactagacct ttactaatta 120
 aaaattacca ttcttaggat tntactatgt tggtgagaaa ataaggaata gaaaagaaac 180
 ttaacaaaaa gtaaaagcag gaattaaagt gcacagtgga aattaaata gtagggaaga 240
 aggagacaaa cacacaagag ttttatactg gttcgacaac aaccctgccc tacatctagt 300
 cccaagcga cctgcggtcc ttgagatttc ttttcaacct tgtaaaaatc cttttacaag 360
 caaagatcca caagggatgt accctccctt gttctctttg aacaacctag tggatgtacc 420

cttcactaga actgatccac aagagatgta ccc

453

<210> 3165
<211> 214
<212> DNA
<213> Glycine max

<400> 3165

caatttcgat cgtctcgata tattacgggt ctcaatcaga catctgagga aaaaagttat 60
tgtcgtttga atttgctgag agcttcaaca ttcaattttg agcgtctcga tgtatttcgg 120
gacttaatca gacatccgag ttaaaaagta ttggttggtg aatttgctga gagcttcaac 180
attcaatttc gagcgtctcg atattttacg ggac 214

<210> 3166
<211> 344
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3166

agctntgagc taattcaaac gacaataatg ttttgctcgg atgtctgatt gaggcccgta 60
atacatcgag acgctcgaaa ttgaatgttg aagctctcag caaattcaaa cgtcaataac 120
tttttactcg gatgtctgat tgagtcccgat aatacatcga gacgctcgaa attgaattct 180
gaatctctga gctaattcaa acgacaataa ctttttactc cgatgtctga ttgagtcccg 240
taatatatcg agacgatcga aattgaattc tgaagctctg agctaattca aacgacaata 300
actttttgct cggatgtctg attgagtccc gttatatatt gaga 344

<210> 3167
<211> 409
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3167

ngaaggcaaa ctggatgcat tggtaactg ggtaaccag ctggccttga atcagaaatc 60
tgtacctgtt gaaggggttg tggtttgtgc tcctctgctg accaccatac aaaccttttc 120
ccttccatgc agcaacctgg agcaattgag cagcctgaag cttatgctgc aaatatttac 180

aatagacctc ctcaäcctca gcagcaaaat caaccacagc agaacaatta tgacctttcc 240
 agcaacagat acaaccttgg atggaggaat caccctaacc tcagatggtc cagccctcag 300
 caacaacaac agcagcctgc tccttccttc caaaatgctg ctggcccaag cagaccatac 360
 attcctccac caatccaaca acaacaacaa ccccgagaac aaccaatag 409

<210> 3168
 <211> 387
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3168

gatgcatcct aaacctttcc accactttct tgaggtaatt gctttgggat aggaatagtt 60
 caccctttgc tctatcccta tgaatatcaa tcccgagtat ccttctagct gaccctagat 120
 ctttcacctc aaattttgtg ttcaagcttt ctttgagttt cctaattctt tccttattag 180
 cactcgctat gaggatgtca tccatataca agataaggta gataacacac actctcccct 240
 ttttcaggat atatacacan gtgtcatatc tgggttctaata gaagccatat ctgattaaga 300
 actcatcana tntcaagtac catattcgag ggctgtgctt cagtctatac aagaaatntt 360
 tcagcaagca caccttggtc tcccctt 387

<210> 3169
 <211> 457
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3169

agctnnggtca tgctaccttg aggttaatat caaagcttca aaagtatagc ctcataagag 60
 gatttccaaa gttgtcatat caaaatgatt ccctttgtga agcttgccat aaaaaggaaa 120
 caagtaaaat gttcgtttta atccaaacat attgtttcca cttttaggcc tttagagctc 180
 ctacacattg acctatttag accaatcaag actgcatccc tctttggatg catatatggt 240
 ctgggtcatag tgaaagatta ccccgatag gcatgggtca gggtttctaac ccacaaggat 300
 gagtctattg atacctttta taaattcaga aaaaagaatc agaatgaaaa aggtatttat 360
 atctcttcaa tcagaagtga tcacggngga gagtttgaaa aaaattatga agagaatgat 420

attcaccctt atttttccac tccaagaaca ccacaac

457

<210> 3170
<211> 425
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3170

agctngccgc cacggagttt tccgactatg ctcttgtgtg gnggaacaag ctacaaaagg 60
agagagcaag aaatgaagag ccaatggttg atacatggac tgagatgaaa aagatcatga 120
ggaagcggta tgtgccggct agttactcaa gggacttgaa attcaagctc caaaaactaa 180
cccaaggcaa caaggggggt gaggagtatt tcaaggaaat ggatgtgctc atgattcaag 240
caaattattga agaagatgag gaggtaacta tggctcgatt tcttaatggt ttgactaatg 300
atatccgtga tattgttgag ctgcaggagt ttgttgaaat ggatgatttg cttcaciaag 360
caatccaagt ggagcaacaa ttaanaagga agggagtggc taagaggagt tctaccaact 420
ttgat 425

<210> 3171
<211> 340
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3171

agcttggata ttcttttagc atggaatcta ttcttcctaa gatggagcca aaccagnca 60
ccctcattaa gaactagctc tgttctttct ctattgcctt tagttgaata cactttcggt 120
tgggtctcta ttgggttctt aacctctca tgcaacttct ttacaaactc tgacctatat 180
tcccccttctt tatgtataaa acaagcttca agtgggaggg gaatgaggct taactgtatt 240
aggggattga acccatatac aacctcagaa ggggactgct tgggtggttct actaaccctc 300
ctgagtcggc aaattctaca tgatgaagat actcattcca 340

<210> 3172
<211> 455
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3172

tatgatatta taaggaattg tgttgctaaa gtatcatggt ttcaaagctg ccatgttaag 60
tttgggagta aacaagccaa tcaagttgtc cacaccttag atacgacatc tagatccttt 120
gcttgtccgc attattttga tcatagccca atatgtattg actcttttat tattggtgat 180
ttaatataat tatattgctt tcaaaaaaag tttaaaacgt taattaatat gatataagtt 240
tatcaccttt aagataactt agttaaaaag cctattttgt aacaagctct aagtaaaaca 300
taaatttatc attcaatagg cttatatggt tgactcttat tgtagtcaac atttgaaata 360
tntttaacag gtaaaaaaat gtatacttct gatacattca tataatctaa tatgatgatg 420
atgatgatga tgataaanat atatgataat catta 455

<210> 3173
<211> 437
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3173

agctnttcct cttttcttct cgagcaatag cctctgtttt tctttatctc gatagctact 60
gcacctaattg tgcagatctg tgcattggtga ttttctagtt caagcttgat ttgtgacatg 120
gtatcagagc tcttcaaaga gctctgctgc gcaatcaaga gaagtttccg aagcaattta 180
tgattttctc acctctgttt tgagtttcat ctggctttga tcttcgattg tggcaatgag 240
tgaaagagat acacatatcc cagccataga cagcttcctt tacttgcac ccaagcgagaa 300
tcccgcgggt tcgcttgat ctccagttct tgattccaca aattatcact catggagcag 360
atcaatgatg attgctctga gtgccanana taaacttgag tttgttgatg gaggagcagc 420
tgagccattg aaattga 437

<210> 3174
<211> 359
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3174

gagaagatga gtggagggag agggagagaa gngcacggaa ttntgtgcct canaaaaggt 60

ctgcactttg aagtataatt ctcaaagatg caaagttgaa aaaatgcaca cacatgacct 120
ctatttatag cctaagtgtc acacaaaatt ggagggaaat ttgaattttt attcaaattt 180
cagttgaatt tgaaattgaa tttgtggagc caaaatttta ctaattatga ttagtgaatt 240
ttagctatgg ttcagcccac taattcaaaa tcaagtccaa gattctccac taagtgtgct 300
taggtgtcat gaggcagta aagcatgaag tacatacaca aagtatgact atatgatgt 359

<210> 3175
<211> 430
<212> DNA
<213> Glycine max

<400> 3175

agcttctaga gtagtataat gaagtcggct atgatgagga gttaatatct gacctccaat 60
actaaatgcc gattcaaaag ctacagtga gatcggaata gctaacacat cccttgcaat 120
tgcttgtagt gttggataca ttagctcggt caatttccac cacattaaga tatcaaaatc 180
tgaatttctt ggtaaaactt catcctctaa gtaatgatcc aacttcgttt tcatagttga 240
ggttcttgcc ctttctttct ttcaatgtat ctatcataat cacacaattt actctttcca 300
tcactaacca catctagtga ttcaaaagaa ctagtagaat ctggatgctt tttggcttga 360
tattccgaaa taaaatcata acacaagttt cggatcctat taacttgtga aaaataatcc 420
atgggataaa 480

<210> 3176
<211> 282
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3176

cgagatgatg cgctccatgt atgttggatc aaatggagaa tagagatcat aatgaagaat 60
aaaggaggag aagaggggaat gatggtgttc ctatacaaaa ccgaattgat ggtattaaac 120
tcaacattgc tccatttaaa ggaaagaatg atcccagggc ctacttggag tgggagatga 180
aaatagagca tgttttctca tgcaacaact atgangagga ccaaaggtg aagcttgcca 240
ccacggagtt ttccgactat ggtcttgtgt ggtggaacaa gc 282

<210> 3177
 <211> 459
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 3177

agctntgagc aaattctaac gacaataact ntttatcttg gatgttcgat aaagtcacgt 60
 aatatatcga gtcgctcgaa atagaatata gaagctgtga gaaaattcta acgtcaataa 120
 ctttttactc ggatgtccga ttgagtcacg taatatatcg agacgcccga aattcaatac 180
 agaaactctg agcaaattct aacgacaata attttttact tggatgtcca attgagtcgc 240
 gtaatatctc gagacactcg aaattgagta cagaagctct gaggaaattc aaatataaat 300
 accttttgac tcggatattc gattgagtcg cgtaatgtat cgagacattc gaaattgaat 360
 acagaagctg tgagcaaatt ctaatgtcaa taacttttcta ctcggatgtc cgactggagt 420
 actttatata tcgagacgct cgaaattcaa tacagaagc 459

<210> 3178
 <211> 377
 <212> DNA
 <213> Glycine max

 <400> 3178

acacttcaaa ctaagcttgc aattgccaac ggaagctctc gaaagattca aatggtcata 60
 actcttatct cggaggtctg attgaggcgc attatatatc gagacgctcg aaaatgaaca 120
 atgggagctc tcgagcaagt acaatgggtca taacttttca ctctgaggta caatataggc 180
 gcataatata tcgagacgct ctcaattgaa caatggaagc tcttgagcaa ttcaaattgg 240
 cataactttt cactcggatg tccgattcag gcgcataata tatcgagacg ctcgaaattg 300
 aacaacggaa gctctcgaga aattcaaatt gtcataactt ttcactccga ggtccgattg 360
 aggcgcataa tatatcg 377

<210> 3179
 <211> 418
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations

<400> 3179

tctagagatt aagactatgc tttcgagttc ctctatggga tntttatatg ggtcggggtt 60
ctacagttga ttctgcccgg cgaacagtgg tggaatttct ccgcccgcac tgttttggtta 120
gatctgagat ttgggaattt ttggattttt ttaatgataa taaatataat gacggtaaag 180
aatcgtcttt actcgttatt aaaagaagct tcttcacacc aacgaaacca tggcttccgt 240
gtacagctgt acggactgcg gctccaacct gaatttgaac tccgtttatg cgtaccctcc 300
ggacttctac atcgaagccg gcaacaaggg ctccgtctnc ttctccgccg tcgacgccac 360
caagttcaaa ttcgacaagg aggacaagaa tcgtcccttc ttcgaaaccg tcaactac 418

<210> 3180

<211> 435

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3180

agcttcacac ttgcaagaag gtttgccatg ccttatatat gagcataatn gggcttcaca 60
ccaaacacat cagtcactctg tttgaagtaa gacctccct catccaacat ctctgcccga 120
gcacacgcac agagaacacc aatgaagggt acttcattag ggagcaatct cagagtctcg 180
tcactctcaa ctccatgttt catcttcccc atactgatca ttacttcaaa caggctcgagt 240
ccatcttcag gactcccacg aatgcagtgc cccaagatca tcatattcca cgataccaaa 300
ttcctttctc tcctctctc aaacactatc tgcgcaacct ccaccttct acacttacag 360
tacatgccaa tcaatgccgt atcaagaatc aaacttgacc tcaatgacat cctaacaatg 420
ctcccatgaa actga 435

<210> 3181

<211> 420

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3181

tatctgactc anacgaggct ggatagactt ctcttatctg actctctagt tcccatgtgg 60
cgtcttctcc taatgcacct ccctagatca acttgactaa tggattctcc ttctctctta 120

agtgctttgt. tcgcatatcc tcgatacctca aaggcaatgt ttgatatgtc aagttctcct 180
 tcacttgtat gtcatccaat ttgatcacat gagatggatc atggatatac ttacgagtta 240
 agacacaaga aagacattgt gaagattaga aagagacggn ggtaatgcaa tttggtatgc 300
 catgggactg actctttntg agaatttgga aaggaccaag aaaatgaggt gtgagttttt 360
 gggatttcaa tgctcgacca acccaagtnc acggagtgc tctagagaat acatgatcac 420

<210> 3182
 <211> 377
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3182

atggctccta ttttcaactct cattgatgga cagacactac catagtggaa tgtcagttga 60
 agaagcaatt gatctcgttg ataagtgc attggaatc agatccaggc ttgttgttgc 120
 gccgccaac tttgttatta aaatcgtgga caaggatggt gcaagagagt acgcatggcg 180
 tgagtcagtc aaggatactc ctgttccttc agcttgagta actctttccc taattntcgt 240
 tggacttctt tctttctatt tgcccatgct tttgtcttgc tatagttntt tttactggtc 300
 ttggaatgtc tctgaaaatt atggctctata gatgctctaa agtaagacag tttatcattn 360
 gaatttaata tgcatga 377

<210> 3183
 <211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3183

ggagaatgtg aatatatgta tacatgatct tgatgatgtc ttaagaagaa tcaaaccacg 60
 cttattttgc ttcaagaata atacaagatt ggttcaacaa acaaagcctt gattcaagat 120
 ttcttcaaga tcaagccttg cctcacaatg aaagggttca agtcattcaa ggcacatgta 180
 atcgattacc aatgggttga aagtgtgtaa tcgattacac atcatatgta atcgattacc 240
 agagactctg aacgttggga attcaaattt taaatgaagg gtcacaactg ttcaagaaaa 300
 acaactgtgt aatcgataca ctaattctgt aattgattac cagagangaa tttcagggat 360

atcgccaaca gtcacatctt atcatttgaa ttntgaatgg ccactnaggc ctatatatat 420
gtgtgac 427

<210> 3184
<211> 416
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3184

agcttctggt ttcaattacg agcgtctcga tatattatgg gactgaatcg cacatccgag 60
tcaaaagtta atttcgtttg aatttgctta gagcatctgt tttcaattac gagcgtctcg 120
atatattatg ggactgaatc gcacatccga gtcaaaagtt aatttcgttt gaatttgctc 180
agagcttctg ttttcaattt cgagcgtctc gatatactac tagacacaat cggacatccg 240
agtcaaaagt tattgtcgtt tgaatatgct cagagcatct gttttcaatt acgagcgtct 300
cgatatatta cgggactcaa tcggacatcc gagtaaaacg ttattgtcgn tggaatttgc 360
tcagagcttc tgttttcaat tacgagcgtt ttgatatatt acgggactca atcgga 416

<210> 3185
<211> 432
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3185

tctatagaag gttcgttctt aatttctcta caattgcac acctctcaat gagctgggtga 60
agaagaatgt ggcatttacc tgnngtgaaa aacaagagca agcctttgct ttgctcaaag 120
aaaagcttac taaggcacct attctagctc ttctgactt ttctaaaact tttgagctag 180
aatgtgatgc ctctagagtg ggagttggag ttgtattggt acaagggtggg caccctattg 240
cttatttttag tgaaaaactt catagtgcc ccttaacag ggggggtcat agaactacca 300
agaagtcccc ttctgaggtt gtctatgggt tcaatccctt aacaccgtta gacctattc 360
ccctcccact agacacttct ttatacata aagaagggga atctanggtc aaagttgtaa 420
agaagttgca tg 432

<210> 3186

<211> 445
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3186

ntacagcaga tgccactcta ctccaagttc ttaaaggata tgtaacaag gaaacacaag 60
 tatattcacc aggaaaacat tgttgtggaa ggaaatggta gtgttgatg tcaaaagatc 120
 cttccacca agcataaaga ccctgngagt gtaaccattc cttgttcaat tggagaagtc 180
 actgtgggaa aagctcttat tgacctgnga gccagtatta acttaatgcc actctccatg 240
 tgcagaaggt ttggagagtt ggagatcatg cccactacga tgactttaca acttgttgac 300
 cgctccatta caagaccata tggagtaatt gaagatgtgc tggtcagagt aaaacattnt 360
 atcttctcgg caaactttgt ggtaatggat atctgtgaag atactgacan ttctgtaata 420
 ttgggaaggc cattttcatg taact 445

<210> 3187
 <211> 440
 <212> DNA
 <213> Glycine max
 <400> 3187

agcttcttag tttcagatga tgcactctgag tttgtagcta cctcatgcac tcctctaattg 60
 actatcgcat aatttctggc gctaaactgc tgggagttgg aagccatctt ctcaattaaa 120
 tttttggctt cagcaggagt catgtctcca agggctccac cactggcagc atctatcata 180
 cttttctcca tattactgag tctttcataa aaatattgga gaagcagctg ctttgaaatc 240
 tgatgggtgag ggcaactagc acatagtttt ttaaactctt ccagtatc atacaggctc 300
 tctccactga gttgtctaata acctgagata tccttctga tggttgtggt cctggaagca 360
 gggaaatgtt tttctaagaa tactctctta aggtcatccc agctcgtgac agaccttgga 420
 gcaaggtaat acagccagtc 440

<210> 3188
 <211> 439
 <212> DNA
 <213> Glycine max
 <400> 3188

tccttgagaa aattcctaaa gaagctagag cttagctaca cacacctctc taatagctaa 60
gctcacctcc ttgagatgag aagctagagc ttagctacac accccctata atagctaagc 120
tcacccccat gacaaaatac atgaaaatac aaaaaagtcc ctactacaaa gactactcaa 180
aatgcctcga aatacaaggc taaaacccta tactactaga atggccgaaa tacaaggcct 240
aaacaaaggt aaaatctatt ctaatattta caagataag caggctcata cttagcccat 300
gggctcgaaa tctaccttaa ggctcatgag aaccctaggg ccttcccttg gatctctggc 360
ccaatctact tggagtcttc tatccaatgc ccttgcgga tatgaatga tcattcctcc 420
cttcttctca ttctctcta 439

<210> 3189
<211> 453
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3189

agcttggatt tctttgctcc gganacctct cctttctcat gtgaacacaa acccaatctt 60
cggattggaa aacaaccttt ttgctcccct tgtttgctta tctagcatag ctctcattcc 120
tcttttcaat ttacgccttg actatttcat ggagcttttt cacatagtcc gctttggatt 180
gtccttcctt atgcttaaaa actgaaatat tagacattag taacaaatca agagcagtta 240
gtggattgaa accataaaca acctcaaaag gagaacaact agtgggtgcta tgcacaaccc 300
tattataaga gcaaactttc caattcttaa gattctattt caaaacgatc cttagcaagg 360
taccacaag tctattcacg acctttgttt gtccatccat ttgagggatga caagtagtag 420
aaaatagtaa cttagtaccc aacttttccc ata 453

<210> 3190
<211> 151
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3190

agcttataat atatcgatac gctcganata aatatctgaa actctcgga aatttaaata 60
gtcataacta ttcacacgga tgtccgattc cgcgcgcata atatgtcgag aggctcgaaa 120

tcgaacaacc caagctcttg agaaattcaa c

151

<210> 3191
<211> 421
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3191

agcttggttat atggacttgg ggaagggttac tctacctgcc attgacaaca tataagccta 60
ccacgagctc aacttactat tgactgtatc gaggataaaa tcaaagtgtat gattagtaaa 120
tttcttgtca agaattgaaa tccgggtact tatctaagtc ctcgatttac ttaaattcac 180
ttggcaccac tatatcctac ttgacttgcc agctaacatt attatagaaa aagatgcggg 240
attattcatc actctcttta gcttcagaac tatcacaaaa caatctaagg gtcaacttga 300
tggcatttat ctaatccgtc gaggttcaa canatagcag aatatcattc gcaaagacaa 360
ggtatgaaat tacgagcccc cttttgttta actggatggg tttccaagct ttttggttga 420
t 421

<210> 3192
<211> 417
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3192

tggtgcctg tctctcggtta taatgggtcac gctgaataat cctatcgaaa agctctccac 60
ctgcacataa ttccatcaca acatgaacag ccacggcatc ctcatatgca cctttgatgg 120
atataacatt angatgcccc gccaaagtggg gcattatctg aatttctctt ctacatcct 180
cgacatcatc atcgggtgacg agcttcctct ttgcaataga tttgcaggcg cactccagcc 240
ctgttgccctt ttccacgcac aagaacgttg tcccgaactg accctgtcca agttttctcc 300
caagagtga gaactccttg aaattatcgg tctctctttg caacacagaa tcaacacgaa 360
gccctgcgct agaaactctc ttactgaac caggtttctt ctgtttcttc ttatcct 417

<210> 3193
<211> 401

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3193

agctntanac aatgagcaga taactaattg gagaagtatt tgggctcatg cttgctacat 60
gctatgtttc tagaggaatc agcaagtccg tcaacctatg tttatcagac ttcaaagcct 120
tgggagacca ttntgtacct ctccaaccaa tataatcaag tgtaagcttc aagtattgtt 180
ggttgagtta taaaagggaa gaagaaatta tgattagatg gaagtctcct gaagctgggt 240
ggtttaaact taattctgat ggttcagtgc atggcaacaa tgggcctgca agttgtggag 300
tcattacaga tgataggggg agatggtggt gacgctttgc taaaaagcta gggaggtggt 360
ctgtcttcat tgcggaattg tgggggggta tcaatgagcc a 401

<210> 3194
<211> 340
<212> DNA
<213> Glycine max

<400> 3194

agctatgaaa agcattgggc gcctcctaatt ttatttgtaa ttcattctatg gtgggtatgg 60
ggaatctatc cttgacagtg atcgtgttca gagcgcggtg atccacgcag aactgccatg 120
tgccatcgaa tttacggacg agcaacaccg gcgacgagaa tgggctcgtg ctgggtttga 180
tgagcccttt ctgcaacatg gagtccacct gagcttctat ctcttgcttc tgatagtggg 240
ggtagcgata tgggtagacg ttcaccggca atgagtgggg aaaaagatga atatggtggt 300
tcctccctct tgccggaggc taggtttgac gctgatggaa 340

<210> 3195
<211> 372
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3195

tgcttctcct gaatatcann attcatttgg gaaaaatata tgggtcaaatt aggattagtt 60
agtagggcac taactgaaat taaatngaatt ttgaatttag gaatgtaagc aacattatgc 120
aagactaagg tgttggttaa acaaactgaa ccaatggcaa gaatgggtat aatgtcacta 180

ttaggtagag ttacagtttt atcataaaca agctaataag atctaaaatg atgaagagag 240
 caagtaatat gaatgcttgc accagaatct aaaagccaac aatcatgaag aaaattggaa 300
 gtggaagtag aaagaatcat accacttatg gaagaaacat catgaagaat gacaacattg 360
 gtagcatgac tt 372

<210> 3196
 <211> 387
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3196

ngcctgtccg atgcagcagt aatgatggcc cgagttatgt tgttgaacgg ntactaaccc 60
 cgaatggggt taggcaaaga caacggcggc attgttagac aagtggcctc agatatctta 120
 agaaaggggg gttgaattaa gatattccan actgtttccc ctaattaaaa atctatttca 180
 ctttttactc aagttatgaa ttcccttaat gacaatcttc ttaaataatta attcanatga 240
 agcaactnga atatgaatat aaagcaataa taaataaagg agattaaggg aagagaaaat 300
 gcaaactcag ttttatactg gttcggccac acccttgtgc ctacgtncag tccccaagca 360
 acccgcttga gagttccact atcttgt 387

<210> 3197
 <211> 203
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3197

agcttatgac aatntgaaat tcgcgagagc tttcgaagat taatttctag cgtctcgata 60
 tattataagc atgaatcgga cctacgtgtg aaaatctatg accatttgaa ttatttgaga 120
 gcttccgttg ttcaatttcg agcgtctcga catattatgc gcctgaattt gacttgacctg 180
 tgaagggtat gaccctttga att 203

<210> 3198
 <211> 314
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 3198

tctacataga antcgagctn ttcgatatat tacgtgactc tttctgacat ccgagtaaaa 60
agttattgta gtttgaatat gctcagggct tcagtattcc atttcgagcg tctcgatata 120
ttactggact caatcagaca ttcgagtaaa aagttattgt ctggtgaata tgctcagagc 180
ctcggcattc catttcgagc atttcgagat attacaggac tcaatcagac atccgagtaa 240
aaagtgattg tagtttgaaa ctgctcagag cttctgtata aattagcagc gtcatgaatt 300
ttactggact caat 314

<210> 3199
<211> 429
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3199

agctttgaga ttattcaaac gacaataact ntttactcgg atgtctgatt gagtcccgaa 60
atatatcgag acgctcgaaa ttgaataccg aagcgctgag caaattcaaa cgacaaaaac 120
tttttactcg gatgtctgat tgagtcccgat aatatatcga aaagctcgaa agtgaatgct 180
gaagctctga gcaaattcaa acgacaatca acttttactc cgatgtctga ttgagtcccg 240
taatatatcg agacgctcga natggaatac cgaagctctg agcaaattca aacgacaata 300
actctttact cggatgtccg attgagtccc gtaatatatc gaaacgctcg aaatggaatg 360
ttgaagctct gagccaatcc aaacgacaat aactttttac tcngatgtct tgatgagtcc 420
cgtaatata 429

<210> 3200
<211> 414
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3200

tggctgcctg tctctcggtg taatggccac gctgaataat cctatcgaaa agctctccac 60
ctgcacataa ttccatcaca acatgaacag ccacggcatc ctcatatgca cctttgatgg 120

atataacatt aggatgcncg gccaaagtggg gcattatctg aatttctctt ctcacatcct 180
cgacatcatc atcgggtgacg agcttccctct ttgcaataga tttgcaggcg cactccagcc 240
ctgttgccctt ttccacgcac aagaacgttg tcccgaactg accctgtcca agttttctcc 300
caagagtgaag gaactccttg aaattatcgg tctctctttg caacacagaa tcaacacgaa 360
gccctgcgct agaaactctc ttactgaac cagcttctt ctggttcttc ttat 414

<210> 3201
<211> 165
<212> DNA
<213> Glycine max

<400> 3201

agcttataat atacgatac gctcgaaatt aattatcgga aactctggcg aaattcaaatt 60
gggcataact tttcaccgag atgtacgatt ctggcgcata atatgtcaag agtgtcgaaa 120
ttgaacaacg gaagctcttg agaaattcaa atgggtcatta ctttt 165

<210> 3202
<211> 355
<212> DNA
<213> Glycine max

<400> 3202

agcttataat atattgatac gctcgaaatt aattctcgga agctctccag aaattcaaatt 60
ggtcattact attcacacg atgttcgatt atggcgaatc acatctcgag acgctcaaaa 120
ttgaacagcg gaagctctcg agaaattcaa atgggtcataa cttttaaacac tgagttccga 180
ttcaggatta taatatatac agacgctcga aattaaacat tggaaggtct cgagacattc 240
aattggttat cacttttcac acggatgtcc gattccggcg cataatatgt cgacacgctc 300
gaaattgaac aacggaagct ctcgagatat tcaaattggc ataacctttt acacg 355

<210> 3203
<211> 297
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3203

catgctttcc cgaatgattg catactgtac aggcattaat ttgaagaaat gtccaaatgc 60

cctgggtgtg gggcatcaag gtacaatggt gaagatgatg angactgcag ttctgatgaa 120
aactcaaaga agggccctcc agcgaaggag ttgtggtatc ttcccatcat tccaaggttt 180
aagtgtcttt ctgctaataga ggacaacaca naagacctta cctggcatgc aaatgggaga 240
aactctgatg gaatggtctg tcactctngac tgatgctccc agtggaagaa gaatgat 297

<210> 3204
<211> 391
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3204

actggatgca ttggttaact tggtaaccca gctggccttg aaccagaaat ctgttcctgt 60
cgcaagggtc tgtggtttgt gtcctctgct tgaccaccat acagaccttt gcccttccat 120
gcagcaacct ggagcaattg agcagtccga agcttatgct gccaacattt acaataaacc 180
tcctcaacct cagcagcaaa atcaaccaca acagaacaat tatgacctct ncaacaacag 240
atacaacctt ggatggagga atcaccctaa tcttagatgg gtctaccctc agcaacaaca 300
acaggagcct tctccttcct tccaaaatgt tgttggccca agcagaccat acattcctnc 360
accaatccaa caacagcaac agccccagaa a 391

<210> 3205
<211> 461
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3205

tccttaacaa gaatcctaaa gaagctagag cttagctact catacctctc taatagctaa 60
gtcacctcc ttgagatgag aagctatagc ttagctacac acaccctata atagctaagc 120
tcaccccatg acaaaaatata tgaaaatata aaaaaatccc tactacaaag actactcaaa 180
atgcctcgaa atacaaggct aaaaccctat actactagaa tgaccgaaat acaaggctca 240
aacgatggaa aaacctattc taatatttac aaagataagc gggctcacac ttagcccatg 300
ggctcgaaat ctaccctaag gctcatgaga nacctanggc cttcccatgg atctctggcc 360
caatctactt ggagtcttct atccaatgcc cttgcggggg aggatngcat caatntatcc 420

ctaaccagtt caaccactta atccaaccct annnataaat a

461

<210> 3206
<211> 259
<212> DNA
<213> Glycine max

<400> 3206

agcttaagct ccttcaactg cacaaggctc ttattatttg aagagtatcc ttgtggaacc 60
ttcacccaac gaagacactg acaaaaactt atcttctcct tcttggacaa agtatggcag 120
gctgggggca agtaaat ttt cttcccatca gaccttggat gcaactgtga tcgtataccc 180
atatcagcta gatctatgtg tgtggctgtg tgtgtatggc tgtgcgtgtg tgcttctgtg 240
tatgtgtgtg tgcgtgtgt 259

<210> 3207
<211> 267
<212> DNA
<213> Glycine max

<400> 3207

agctctgtgc tcaatttcca ctggaagatg acatgccttt ccaaagacaa cccgataagg 60
agacattcct atgggtgctt tgtaggcagt ccgatgtgcc cagagagcat catcaagcct 120
gggtactcaa tctttcctgc ttggctgcac aatcttctct aaaattcgct tgatttctcg 180
gttagaaatt tctgcctgtc cattgggtctg ggggtggat ggtgtcgacc cccccgcct 240
cccccttact ctctccacaa atcctcc 267

<210> 3208
<211> 379
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3208

agctnttaac tgaatntgca acgttccaat tgttttttta atgggtgtaat cgattacaat 60
atattggtaa tcgattacca gtgtatctga acgttgaaat tcaaattcaa ttgtgaagag 120
tcacatcttt tcataaaatg ctttgtgtaa tcgattacat ggtttttgta atcgattacc 180

agtgacaagt tttgaataaa aatcaagaga tgtaactctt ccaatgggtt tcttaagatt 240
 ttctcaaggt tataactctc tcaatgggtt tcttgaccaa acatgaagag tctataaaag 300
 ccagaccttg acttgcatth tatgtacttg atataactct tttcacaact ttttgaacat 360
 cttcttaaac ttctttctt 379

<210> 3209
 <211> 396
 <212> DNA
 <213> Glycine max

<400> 3209

agctctagga attatattct ggagcactta tcctttcaag gatctcatalc tcacacaata 60
 attattgcac aacccaaaat tctataatat taactatctt ccaaacgtta gctatcttta 120
 ctagtgactt tccaaggat gaaaaattga aatgttacat tacttgatgt tttaaaatga 180
 aagtgattgg actacaaaaa tattctacaa tataaaaaat agattgcac tcataaaata 240
 taattcacia caaaattttc taatttaaac tttcataaca tggaaagcta tttcattgaa 300
 tacattcaat ttggtgctcg acttccatct tatggcaaaa atctaaagtc aagtattatg 360
 gaaatttgta caatattttt accaaataaa taaatc 396

<210> 3210
 <211> 342
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3210

aatgtcttag ctcatcattt tttatatctc ataccctcca caaacaacac gaaaaggatg 60
 aaagaataaa cgtaactgaa tcaatggaag gcaaaacaat ccaatgatga tngaataacc 120
 actagtaaaa ataattggga gaaaaacaag taaaaactca caattattgc tcttccaaaa 180
 gcaccagcac tgacataagc ccatgttctt ggaagcatcc ccaaccaact gcataacaat 240
 tatcagttnt aagacagana ttcacgagaa ctatatgtng tcanatgcag ttccagataa 300
 tcatactggg atagttccaa atagatacac gacanacata tg 342

<210> 3211
 <211> 331

<212> DNA
<213> Glycine max

<400> 3211

ttgacttgct ttccaatctg acattcactt cagattctgg ctccctctat tttcagaatg 60
ggaatgcctc ttacaacacc tttggcaatg attttcttca tgcctcttaa gtgcagatgt 120
tccaatcttt gatgccatat tttgacttca tcttcattgg gagataaaca tgtggaggaa 180
gtactggggt tcttgaagtg ttcataggta acaaagtcc tttgatctgc tgccttcat 240
taaaacttca ctcttctcat ttgtcaccaa gcattctgac tttgtgaaag atacattgaa 300
tccttcatca caaactgac tgatgctgat c 331

<210> 3212
<211> 413
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3212

tctcgttcac gctactcaca cagggaacca tacattcttt cattccactt aaccctacat 60
aatgtgctct acataccac tttcacattc aatcttattt caatgtcaaa ctcgatatctt 120
ctactaatta tgaattaatc ttttcttcca catcgctgct attgcggaag cgaacaatca 180
tatgaagatt ggtatagttg aagcaaagca tggcctctac catntgatac caaaccagat 240
aactacaaa gccatctgct ctaccatcac tcattcctaaa tgcaaatca tccccataga 300
cctatggcat tttagaatgg gacacccatc aaatgaaagg ctacaatgta tgaaaaacta 360
ttatcctctt ttgagaaatg atncaaaatt tgtctgcaac acgtgtcact atg 413

<210> 3213
<211> 398
<212> DNA
<213> Glycine max

<400> 3213

tagactaagt tcagcctacc atcctcagac tgattgcaa actgaactgt tcattcagtc 60
gctaaaagac cttttgaggg catgtgtctt agagcaaaag ggaagttggg agagttttct 120
tccgctgata gagtttactt ataacaatag ttttactct acgattgaca tggctcccta 180

tgatgctttg tatgggttaaa ggtgtatgac acccctatgt tagctagagc ccggagaatg 240
 ccttacctta tgacctgaaa tgggtacaaca aaccaccaat aacgtcaagt tgatccaaaa 300
 aggatgacga ccgctcacag ttggcagaat tgttttacga ttagaagagg aaagatctga 360
 cattcgcggt ggtgatcatg tattcttgaa agtcactc 398

<210> 3214
 <211> 362
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3214

taagatccta agtgctgata gtataatacc cttatgtatc taatctttgc ttaacctttt 60
 tgcactctac tggccagggt ctttaattcc tttagactga gagagctaac agcatcacga 120
 aggatgtgcc tggaatgcaa aaaaatgaca ttgaatnttt catttcaatg gagaattcta 180
 ctgaataata tttttaacag aatgtaacat tgacctatct ggattctgaa tgtctctgat 240
 ctgtcttttt aatttggata tgttctgata aaactgttat tcataaaaag tgtcaaccag 300
 ttagagaaac cttgtggagg agcagttttt caactaactg cagttgatac catttgttct 360
 ac 362

<210> 3215
 <211> 444
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3215

tactcagctt gacaattaac acatacttaa ctcgatgtct tattgtgtcc cgtatatatc 60
 gagataccta aaattcagaa cagaagctat tagaaaaaat caacgacgat gactttttac 120
 acggatgtnc gattgggtcc cataatatgt cgagacgctt gaaattgaaa acagaagctt 180
 tcaagcaa at caaaagacaa taacttttta ctgaaatgtt cgagtgaagtc ccataatata 240
 tcgagacgct cgtaattgan aacagaagct cagaggaaat tcaaacgaca ataacttttg 300
 actcanatgt ccgcttgagt ccgcactat atcgagacgc tcgtaattga aacagaagct 360
 ctgangaaat tcaaacgaca gtaactnttt actcgatga ccgattgagt ccataatat 420

gtcgagacgc tcgtaattga aaac

444

<210> 3216
<211> 264
<212> DNA
<213> Glycine max

<400> 3216

gtcttttaac ccagagaatg ggtttgggtg cacatgaaaa aagaaagatt tccggaacaa 60
aggaaatcaa agcttctacc aaggggagat ggaccatttc aagtgcttga aagaatcaat 120
gacgatgctt acaaagttga gctgcccggg gagtataatg ttagttccac cttcaatgtc 180
tctgacttat ctctttttga tgcagatgga gaatctgatt agaggacaaa tccttctcaa 240
gagggagaga atgatgagga catg 264

<210> 3217
<211> 276
<212> DNA
<213> Glycine max

<400> 3217

agcttcgcat gttcttgacc tctcaccccc aatctaattg acaaacttat gtattaaacc 60
gtgtcgttca gcaatattta cgggccttca tgcataataa gccactctct tgcggcaagt 120
tcttaatttg ggctgaatgg tcctataata cgtcttgaca tttaggaaca ggggcttctc 180
cttacgagat cacgtatggg aagacacctc ttactatccc acaatatgtt ataagaacat 240
cgaaagtggc agccggggat gactttctga ctaacc 276

<210> 3218
<211> 390
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3218

taaaaattca cttacgagcc ctctcgatat attaccggac tcaatcaaca ttcgagaata 60
aagttatttg tcgttgaatt ttctcagagg ttcaacattc catttcgata gtctcgatat 120
attacgggac tcaatcagat atctgagtaa aacgttattg tcgtttgaat tggctcagag 180
gttcaacatt caatttcgag cgtctcgata tattacggga ctcaatcaga catccgagta 240

aaaagttatt gtcatttgaa ttgactcang agctctacat tcaatttcga ggggtctcgat 300
 atattacggg actcaatcag acatccgcgt aaaaagttat tgctgtttga atttgctcag 360
 aggttcaaca ttcaatttcg agcgtctcga 390

<210> 3219
 <211> 446
 <212> DNA
 <213> Glycine max

<400> 3219

agcttcaaca tcagaccact tccaggggtgc tgggtactact tcacatggat ttgatggggc 60
 ctatgcaagt tgaaagcctt ggaggaaaga ggtatgccta tgttgttgat gatgatttct 120
 ccagatttac ctgcgtaaac tttatcagag agaaatcaga aacctttgaa gtattcaaag 180
 agttgagtct aagacttcaa agagagaaag actgtgtcat caagagaatc acgagtgacc 240
 atggcagaga atttgaaaac agcaggttca ctgaattctg cacatctgaa ggcatactc 300
 atgagttctc tgcagccatt acaccacaac agaatgggat agttgagagg aaaaacacga 360
 ccttgcaaga agctgctcgg gtcattgctt atgccaaaga acttccctat aatctctggg 420
 ctgaagccat gaacacagca tggttac 446

<210> 3220
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3220

tccacatact tgatacccat tctacatttt cagcttacag atctaactat ctttcanggc 60
 ccagatagac caaattggag agattcccaa tctgagatgg aatcttcccc atgaatccaa 120
 cataagagag gtcgaggtga gtcaaagagg tcattgcaca aaggaaagaa ggaattgcca 180
 taccttcaaa ataattgtcg ctcaagtcaa gatatcgaag cttagagaga ttcccgatct 240
 gagaggggtac tgttccgtan gcaacatatc tcangtcaag atacaccana tntgagagat 300
 tccaatctg aggaggaatc ttccccctga atccagtaag agagagggtg aggtgagtca 360
 angaagtcatt tgtcccaacg aaagaaagaa tngacatacc ttctccaaga aatccattgc 420

cgctcaagtc caagtaattc

440

<210> 3221

<211> 451

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3221

agcttatcgg agatggagct ntgggtggaga gattagtcct tgtttggctg atttaaagca 60

tttgaattac ttggacttga gcggcaatta tttccttgga gaaggatatgt caattccttc 120

tttccttggg acaatgactt ccttgactca cctcgacctc tctcatagtg gattctatgg 180

gatgattcct cctcagattg ggaatctctc aaatttggtg tatcttgacc tgagatctgt 240

tgccaacgga acagtaccct ctcagatcgg gaatctctct aagcttccat atcttgactc 300

gacctacaat catttacttg gagaaggat ggcaattcct tctttccttt gtgcaatgct 360

tgactagtag tagtagctag tgaccaaacc taattcgtat tatcatagcc atcatacaaa 420

cctagctcac actgntcact tgcattccata t 451

<210> 3222

<211> 463

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3222

tcenctgcac canatagctn tttctatana tagtgatgta agctccattg tagcttgtat 60

gcctaggatc ttcttcatca atggattcct ttgcttcttg gaagatgaat ggtagtgga 120

tggagaagga agagagagag gagatgccac ttcaaggaga agatgagtct ataagaagct 180

caccaccgta agaggccatg gataagagct tggaggaaga aggagatgaa tgaagggaga 240

ggaagagaag agcacaaaat tttgtgctct aaaagagctc tgaaatctga agtttaattn 300

tcaaatgatc aaagttgaaa aaatgcacac acatgacctc tatntatagc ctaagtgtca 360

cacaaaattg gagggaaatt tgaatttcta ttcagatttc acttgaattt gaaattgaat 420

ttgtggagcc aaattttgga tccaaaattc actattatga tag 463

<210> 3223

<211> 416
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 3223

 agctagaagg caaactggat gcattggtta acttggtaac ccagctggcc ttgagtcaga 60
 aatctgtacc tgttgcaagg gtttgtggtt tgtgctcctc tgctgaccac catacagacc 120
 tttgcccttc catgcagcaa cctggagcaa ttgagcagcc tgaagcttat gctgcaaata 180
 tttacaatag acctcctcaa cctcagcagc aaaatcaacc acagcagaac aattatgacc 240
 tctccagcaa cagatacaac cctggatgga ggaatcaccc taacctcaga tgggtccagcc 300
 ctcagcaaca acaacaacag cctgctcctt ccttccaaaa tgctgctggc ccaagcagac 360
 catacattnc tccaccaatc caacaacagc aacaacccca gaaacaacca acagtt 416

<210> 3224
 <211> 393
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 3224

 gttgtaaaaa ggaaatcaag ttaaaaactc tgtttaaagc agatatgttg tttctacttc 60
 aaaaccctt gaactacttc acattgattt atttgggtccc tctagaacta tgagtntagg 120
 tggaaattac tatgtctcgg taattgtgga tgattactca aggtttactt ggaccttggt 180
 ttcaaaaaca aaaaatcaag cttttgatgt ttttcgcaaa cttgccaagg tgatccaaaa 240
 taiaaaaaaa ggtcttttacg ttgtttcagt tataagtgat catggagatg aattaaaaat 300
 gagtcttttg aagacttcta tgaagaacat ggaattcacc acaatttttc agccccaaga 360
 atacctcaac aaaatggtgt tgtggagagg aaa 393

<210> 3225
 <211> 405
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 3225

 tctcatatat tatgcccctg aatcggactt ccgtttgaaa atgttatacc atttgaattt 60

ctcgagagct ttggttggtc aatntccaat gtctcgatat attatgcacc tgaatncgat 120
 tgtcgtgaga caagttatga ccatttgaat ttctcgacag catgcgttgt tcaatttcta 180
 gcttctccat atattatgcg cctgaatctg acctccgtgt gacaagttat gaccattgga 240
 attgctcgag ggcttccgat gttcgatttc gagcatctcg atatattatg tgcttcaatt 300
 ggacatgcgt gtgacaagtt attgaccatt gaatttttcg agcccatagc ttgttcaatt 360
 tcagcctctc gatatatatg cacctgaatc ggacttaatg tgaca 405

<210> 3226
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3226

ntagttntca tgttgttcat gttgctcttc ttatctctaa cattatataa aaataatatt 60
 cagatnttag agtttatcta aagcttaagt ttatggaatg taacatgaac aatcaaaacc 120
 tattactccg ttccaaaact ataaatgctc tacaaattca aactaaatt catagtcctt 180
 tctctattat acccttggtt acagttatca gtgcattgaa tattttttgt caccaatagc 240
 taaccattta tcaatgagaa tattcactta atattgtctc tagactctac ggtatctaaa 300
 tatntgtggt taatggatgat tccaacaaca tgattaaata ggaatatttt agtctaaagt 360
 tttatcaatt aatatntagt aatgggtgtg cactaacctt aaacatatat 410

<210> 3227
 <211> 385
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3227

agcnttctta agaagattcg taaagaagct agagcttagc tacacatacc tctctaatag 60
 ctaagctcac ctcccttgaga tgagaagcta gagcttagct acacacnccc tataatagct 120
 aagctcaccc ccatgacaaa aaacatgaaa ataaaaaaaa gtccttatta taaagacaac 180
 tcacaatggc ccgaaataca acgctaaaac cctatactac tagaatggcc aaaatacaag 240
 gccttgacga aggaaaaacc tatttctaata ttacaaaaga taagcaggct catacttagc 300

ccatgggctc gaaatctacc ctaaggctca tgagaaccct agggctcttc cttggatctc 360
tancccaatc tacttggagt cttct 385

<210> 3228
<211> 446
<212> DNA
<213> Glycine max

<400> 3228

gttgatctcc ttgttccgg aaacctttct tttctcatgt gcacccaaac ccaatctccg 60
ggttcgaaga caaccttctt tctcccttg ttggcttggt tagcatagct tttatttttc 120
ctctcaattt gatctttgac tctctcatga agcttcttca catagtccgc ctttgcttga 180
ccttctttat gcttaaaaac agaaacatta ggcataggca aaagatcaag aggagttagt 240
gggttaaaac cataaacaac ttcaaaagga gaacaattag tgggtgctatg aacagctcta 300
ttgtaagcaa attcaacatg gggtaaacaa gcttcccaag tttttaagtt cttcctcaaa 360
actgtcctaa gcaaagttcc caaagtccta ttaacaactt ccggttgccc atcggtttgt 420
gggtgacaag tgggtgaaaa taacaa 446

<210> 3229
<211> 458
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3229

cgcgctngag cctgggttggt gtctggttttc cctcattccc ccatcgaccc gtcgagtcgc 60
tatgcaacat gatatgaagt agtaggggtg ttctaaagat ttgctagctt agccctcagg 120
gaacagagga agagtttagg cttgggttga gaagtagggt cattctctga aatgttatta 180
ataaatttca atatggagct gtacccaagg tgagtttagat caatntaatt taatttgcaa 240
ttntattggc tccagttttg gttatttcgt tattgtatgt tacaatgtat tatcttttaa 300
ggtgggtggag tcccgttgat tctgcactga accatgatgg agcaccatta acgacatatt 360
agtattttga aaatatgatg aatttcctgg tgcactgtgc caagaaattg gacttccttc 420
cttccttcct tcctttgaga catctgatct gaaacaag 458

<210> 3230
 <211> 272
 <212> DNA
 <213> Glycine max

<400> 3230

catgcaagct tatcattata tctaagctag agagatcacc tgacagatta ttgtgagaga 60
 gattcaatgt ttctaagctt ttttaattctc caaacgttga acgtattgct cctctcaaag 120
 aatttccact aagatcaaga cttgtaagaa atttcagttc gccagctct gaaggaatat 180
 ttccctgaaa tttatttttg ctcatactca tgtccaataa atagagcaaa tttccaagtt 240
 gttctgggat taaccacac aaattatttg at 272

<210> 3231
 <211> 475
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3231

agtcactnt agcttcttgc catcaccttg aatttctgga aaactgagaa cacctcatct 60
 ttgacctga tcaagtatgc ccacatcatt ctgctatgct catctacaaa tgatgtgaag 120
 tacttgttcc caccagttta tggtagctca aaaggaccac acacattaga atgcacaaca 180
 ccaagtgcac tggagctct cattggcaaa tgggaattaa aggaatttct tggttgcttg 240
 ccaatgagac acacatcaca caccttctct ggtacattta attttggtta acctataacc 300
 atattattag ttactaacat attcaaactt ttgaaattta agtgacaaa cctgagatgc 360
 caaagccagc tcaattgggt gatctttgta gccattaaac attgtacttc tgctgcctta 420
 atgttggctt gaaaggttct atttcttgag agtggagata tcaagactag cttca 475

<210> 3232
 <211> 457
 <212> DNA
 <213> Glycine max

<400> 3232

tattctatgt gatttaccac ccacacaatg atcacaaaat tcaagtttat ctagtttatc 60
 accacctagt agattttggt tctcaagttc atgtaatcct ctttcactaa catgacctaa 120

1385

tctcaaatgc caaagttttg ttttatcaat caaagtatta ctagctaccg atgcatgtcc 180
aacaatagtg gaaccttcaa gaataaacia gccattactt ttattcttgt tacccttagc 240
tatgattaaa gatccatttg aaatcttaag aacaccattt aaaattctag ttgaatatcc 300
tagatcatca aacatgttta tggaaataag atttcttttg agttctggaa tgtaccttac 360
atttttcagt agatactctc tattatcaaa catcttcaat ctcaaatc caatgccttg 420
taccttgag ggtagttgt ctctagcag tacagct 457

<210> 3233
<211> 432
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3233

tgtatcacat tcaaacgaca ataacgttnt actcggatgt ttgattgcgt ctcgtaatat 60
atcgagacgc tcgaaattga aaacggatgc tcgtagcaca tgcaaaccgc aataactttt 120
aactcggatg tatgattgag taccataata gatcgagacg ctcgaaattg aaaaaagaag 180
ttctgagcaa attcaaacga ctataacttt ctactcggat gtctgattga gtcccgaat 240
atatcgagga gcacgaaatt gagaacagaa gctctgacca taatcaaacc acaataactg 300
tatattcgga tgtgcgattg agtcccgtaa tatatgaaga cgctccaaat tgaaaacaga 360
agctctgaac aaattcaaac gacaataact ttgtactcgg atgtccgatt gagtcccgtg 420
atatatcgag ac 432

<210> 3234
<211> 345
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3234

agctntgagc caattcaaac gacaataact ntctactcgg atgtctgatt gagtcccgtc 60
atatatcgag acgctcaaca ttgaatattg aagctctgag ccaattcaaa ccacaataac 120
tctttactcg gatgtctgat tgagtccgc aatataacga gacgctcgaa attgaatgtt 180
gaagctctga gctaatactaa acgacaataa cttttttctc cgatgtctga tcgagctccg 240

taatatatcg agacgctcga aattgaatgt ggaatctctg agccaattca aacgacaata 300
actctttact ccgatgtccg atcgagtccc ctaacatata gagac 345

<210> 3235
<211> 460
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3235

tatgctgcan atattttacaa tagacctcct caacctcagc agcaaaatca accacagaag 60
agcaattatg acctttccag caacagatac aaccttggat ggaggaatca ccctaaccac 120
agatggtcca gccctcagca acaacaacag cagcctgctc cttccttcca aaatgctgct 180
ggcccaagca gaccatacat tcttccacca atccaacaac agcagcaacc ccagaaacag 240
ccaacagttg aggccctcc acaaccttcc ctgaagaac ttgtgaggca aatgactatg 300
cagaacatgc agtttcagca agagaccaga gcctccattc agagcttaac caatcagatg 360
ggacaattag ctaccaatc gaatcaacaa cagtcccaga attctgacaa gctgccttct 420
caagttgtcc aaaatcccaa aaatgtcagt gccatttcat 460

<210> 3236
<211> 330
<212> DNA
<213> Glycine max
<400> 3236

gcttgatctt tagttttatc tttaatcttt aatccctgaa tgaactattc aagtttgtaa 60
ttcgaacttt aattatctct taattcgctc ctaaagatag atcgccaaat ctgttgctaa 120
ctgcacaata atctgttaaa gatataacag atttatgtgt ccagtatttc cggcaggatg 180
tcctggacat tgtatccgac atcgtggatc ctgcacaatc tgttaaagat ataacagatt 240
tatgtgtcca gtattttccg gcaggatgtc ctggacattg tatccgacat cgcggatcct 300
gcaccttcaa ttcttcattt gacattttat 330

<210> 3237
<211> 471
<212> DNA

tttcttttttg aaaatt

436

<210> 3242
<211> 469
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3242

attctttgtg ggttgatggg ttctgtcgca cagaatggcg tgatcactgg ctgacatatt 60
ctcaattagc tcagttgctt cttccggggt cttcagcttt atttttcccc atgtcgaagc 120
atctagcagt tgcttggttt gtggtctcag cccatctatg aacatattca attggattgg 180
ctctgaaaac ccatgggtgg gagttcttct caataaacct ctgaacctct ctaatgcttc 240
acttagagat tcatcagcga attgatgaaa ttaagagttt gcagctttcc cttccgcagt 300
cttggactct gggaagtatt tctttagaaa cttttcaaca acttcttccc atgttttcag 360
actgttaccc ttaaacgagt gaagtcacct cttggcctct catgctaag agaatgagaa 420
taggttgagt cttatagctt catctggcac accgaanac ttaacaatg 469

<210> 3243
<211> 472
<212> DNA
<213> Glycine max

<400> 3243

tatatcaagg aataggctaa aaccttcgat gagatctcct tccatcatgt tccccgcgag 60
gaaaatcaaa tggcggatgc acttgctact ttggcgtcta tgttccagct aacgccgcac 120
ggagatctac cctacattga attttggtgt cgtggcaaac ccgcgcattg ttgccaagta 180
gaagaggaaac gggacggaaa gccttggtat ttcgacatca agcgatatgt cgtaagcaaa 240
gaatacccg cagagattgc cgacaatgat aagaggacat tgagaagggt ggcaaccgat 300
ttcttcatga gcggaagcat actgtataag agaaatcacg acatgacact cctgcgggtgt 360
gtggatgccca gggaggcaaa tcacatgatc gaggaagtcc atgagggtc gtttggaaac 420
cacgccaacg ggcattgctat ggctaggaag atccttagag caggttatta ct 472

<210> 3244

<211> 396
 <212> DNA
 <213> Glycine max

<400> 3244

tcataagaga gtcaaaacat caaattgaga ggagaaataa aagctatgct aaacaagcca 60
 acaaagggag aaagaaggtt gtctttgaac ccagagattg ggtttgggtg cacatgagaa 120
 aagaaagatt tccggaacaa aggaaatcaa agcttctacc aaggggagat ggaccatttc 180
 aagtgcctga aagaatcaat gacgatgctt acaaagttga gctgcccggg gagtataatg 240
 ttagttccac cttcaatgtc tctgacttat ctctttttga tgcagatgga gaatctgatt 300
 agaggacaaa ttcttctcaa gagggagaga atgatgagga catgaccaag agcaagggca 360
 aggatccact tgaaggactt ggaggacctg tgacaa 396

<210> 3245
 <211> 449
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3245

gctattacgg acctatgaaa ctcagcttan aaatatatgt agaacataac aagctagaag 60
 aataaatgga agttaattat attntcttaa aatcttattt tattatttga tgtagctcca 120
 tgtagagctt gtaagcattg aatctttctt atcaatggag tcatttgctt ctcaaagatc 180
 aatgacaacg gaatagagaa tgagaaaagg ttatttgaga cgccacttca aagagaagat 240
 gaatcaagaa caagctcact agcatatgaa accatgaata agagcttgaa ggtaggtaga 300
 agaagatgag tggagggaaa aggagagggg gacatgaaat ttatgcctca natgaggtct 360
 gaactttgaa gtgtaatttc tcaaattatc aaagttgaaa aatatacaca caagacctct 420
 atctatagcc taagtgtcac acaaaatta 449

<210> 3246
 <211> 460
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3246

ctattacgga cctatgaaac tcagctatcc tacaaaacag gacatcctta ctttatatat 60
gcagaggact aagcagacaa aatcaccgaa ttaactttca tatggattct agtcacagcc 120
caacgattca ctaccttgaa ctaacatcca tataagacac aaactgcacc ctctgaacac 180
acatgatctt aaccctaacg atctacattg agcaagctta agcagtgatc aaacttgctc 240
tttggaactg gctgtgtaaa catattagcc ggattgtgca gagagataat cttatgaact 300
ttgattcttc tttctgaccg aatgaagtga tatctaacat ctatatgctt ggttctatca 360
tgatgaacct aatccttggc caagcatata gactaaggc tgtcacagta gatgttagca 420
tattcttgat taatntcgag atcatttata agacctctca 460

<210> 3247
<211> 369
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3247

tgaagagcct cctcaatcaa actgaaaaac ctatatcctt caatgaagtt agcaccctac 60
ttttcataaa acttgatggt gagaatattc caatcaagca taaccactt gacccttatg 120
caccctattt ttatggcttg cntgcccacc acagagagca acattctccc aagccccttc 180
gtcttataac actccctcaa gaacaagttc tccatgtaaa accctcgctt ctctagaacg 240
agagagaagt tccgagaaaa caagacaaac ccaacaatgg aaacaccttt gaggggtttt 300
aaatcgtagt ttctcgagat aactattact taatgggaat aataaatgaa taattaataa 360
ttatggact 369

<210> 3248
<211> 405
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3248

agcttacact gattgacaat ccgtaagggt agtctttatg acttatacgg attgttaaaa 60
atatgtttta gaaaataatt taaaattaat gatccataca ggtctcaaac ctgtgtgact 120
ctcatgttat tatcataaca ctctaataca ctcaatgaat aggtcaatta tgtaaaaaaa 180

taattagcgt cgctatatat aacattaaaa tttttaatgt atatttaatt tacataataa 240
 attttgtaac aattatTTTT gatctaataa tgttttttta catatataaa ttctaaataa 300
 aaattatacy gttaatgaac atctatatat gtaaaaaata cattattaca ataaaactta 360
 ttattacaca atttattata tnaacttata tgtgtattaa atata 405

<210> 3249
 <211> 420
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3249

gctttaatac tttgaaatag aaaatgacgt ctgcatccat aatcactact ccaaattgga 60
 cactagattt tgaaataatg tgtgatgcaa gtgattatgc agtaagagcg gttctgagtc 120
 aatggaaaaa taaaatTTTT catgtcatac actatgcaag aaaggtatta aatgaagctc 180
 anatacatta tgccacaact gagaaagaat tgctcgcaat agtatatgct ttggaacaat 240
 ttacatctta tttgatagga tctaaaattg tgttttttac tgatcatgct gctataagat 300
 atctgttagt taaagctgat tctaaaccct aacttattaa tggattctat tattgaggaa 360
 tttgatttat agatcaacga taaaaaggga agtgaaaatt atgtacctga tcatctgtct 420

<210> 3250
 <211> 405
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3250

gcatgcaagc ttgctnctnc accttctcta atagcccaca agagatcttc ctccatggct 60
 ctctatcaa ggatttggcc atttgcatac actattcttg catctacgac attgtcagct 120
 ncaaggccat actttctcat catggatcca tatgcacctc ccgtgatgtg ccctccaaca 180
 cctaaacttg tgcaaaggcc tgcagggaaa ccatgaaccg aacttttctc atatattttg 240
 taatagacct cccaatagt ggcanccggt tgaatccaag cagtgttgct ttctatatca 300
 acgttgacgg cgcgaagctt tgacaaatca acaattatga aaggggtctc aacttcagaa 360
 acatatgaga gtccttcata gtcatgggca ccgctacgaa ttctc 405

<210> 3251
 <211> 317
 <212> DNA
 <213> Glycine max

<400> 3251

agaatcggac atccgtgtga gaagatatgg cctatctgaa tatctccaga gattctgatg 60
 attgagtttc gagcgtatcg atatgttata atcctgaatc tgacatccgc gtgaatagtt 120
 ctgaccgttt agatttcacc agagcttgcg tcgtcaattt cgagtgtcac tatatgtgat 180
 gcgcctgaat tggacatccg agttaaatgt tatgaccatt tgaatatctc aagagcttcc 240
 actgttcaga tttgagcgtc tcgatatgtg attcgctcga atcggactct cgtgtgaaaa 300
 gctatgacca ttataat 317

<210> 3252
 <211> 239
 <212> DNA
 <213> Glycine max

<400> 3252

agcttcaatg ttttaatttcg attgtctcga tatattataa gcttgaatcg gacctacgtg 60
 tgaaaagtta tggccattcg aatttcttga gagctctcgt tgggtcaattt ccagtgtctc 120
 catatgtgat gcaaacgaat tcgacacgcc ggtgaaaaga taagaccata tgaatttctc 180
 gagggctttc cctcctaaaa ttcgagcgtc tccatatatt ctaagcctga actcggaca 239

<210> 3253
 <211> 445
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3253

tcttgagctn ggtatgaaaa gttaagttcn gttttaattg aaaatggctn tataagagga 60
 aaggtaaata ctatgctatt tcagaaagat tatggaagtc aaatcctagt cgtcaagata 120
 tatgtggatg ataccatatt cagtgtact aatgacttgt tgtgcgagga tttttccaaa 180
 cttatgcagg cagagtttga gatgagtata atgggagaat tgaagttctt tcttggactt 240
 caaatcaagc aaacaaacaa tggcatatac acacatcaaa ccaagtacat gaaggaactt 300

ctgaagaagt tgaagatgga tgatgaaaac caaatgaaaa cacttatgca tccaaccact 360
gtacttggac taggcaaaga atcaaagcgg gtggatgaaa agacatacaa agaaatgata 420
ggatatcttt tgtatgtcat tgagt 445

<210> 3254
<211> 157
<212> DNA
<213> Glycine max

<400> 3254

catgcaagct tataatatat cgagcgcgct cgaaattgaa caacggaagc tcttgagaaa 60
gtcaaatggt cataactttt aactcggagg taattcatgc gcctcacata tagagacgct 120
taaaaatgaa ccaccgaagc tctcccgaag ttaaaat 157

<210> 3255
<211> 461
<212> DNA
<213> Glycine max

<400> 3255

aaacgttcag aaactgctgg taatcgatta ctatatatgt gtaatcgatt acacagtgca 60
aactttgaat tcaaatttta atagctgttg taaatcagtt ttggccactg gtaatcaatt 120
acatcctctg gtaatcgatt accagagagt aaatttgta aaaaagactt ttaacttaa 180
aattcttggc caaacctttt gctacttcaa ttggaattct cttcctatth aatataccct 240
ttctaagact ctagagactg tcttgatcat ccatcttgaa tatctttaat ttctttgtct 300
tgaataaagc ttttagactt tgagacgcat gtgaaacttt ggcatcatca aaacattcag 360
ctagatcctt tgtctacaaa agtgtgacag agagacaggt gcgatcatag ttctggatga 420
cattgcttct cagcagcatc ctcccagcg atcataattc t 461

<210> 3256
<211> 432
<212> DNA
<213> Glycine max

<400> 3256

tcaacattca atttcgagcg tctcgatata tggcgggact caatcagaca tccgagtaaa 60

aagttattgt cgtttgaatt ggctcagagg ttcaacattc aatttcgagc gtctcgatat 120
 attacgggac tcaatcagac atccgagtaa aaagttattg tcgttggaat tggctgagag 180
 cttcaacatt caatttcgag ggtctcgata tattacggga ctcaatcaga catccgagta 240
 aaaagttatt gtcggttgaa taggctcaga gcttcaacat tcaatttcga gggctctgat 300
 atattacggg actcaatcag acatccgagt aaaaagttat tgcggttga attggctcag 360
 aggttcaaca ttcaatttcg agcgtctcga tatattacgg gactcaatca gacatccgag 420
 taaaacgtta tt 432

<210> 3257
 <211> 393
 <212> DNA
 <213> Glycine max

<400> 3257

tgtagtcccc ggatctctaa gtcacctgcg gcattgcaagc tttgagccat tacacgacaa 60
 taactcttta ttcggatgtc tgattgagtc ccgtaatata tcgagaccgt cgaaattgaa 120
 tgttgaagct cttagccaag taaaacgaca ataacgtttt actcggatgt ctgattgagt 180
 cccgtcatat atcgagacgc tcgaaattga atgttgaatc tctgagccaa ttcaaacgac 240
 aataactttt tactcggatg tctgattgag tcccgaata tatccacacc ctcgaaattg 300
 aatgttgaag ctctgagcca attcaaacga caataacttt ttactcggat gtctgattga 360
 gtcccgaat atatcgagac gctcgaattg aat 393

<210> 3258
 <211> 336
 <212> DNA
 <213> Glycine max

<400> 3258

catgcaactt cagcatgtgt actccctcgg ctgctgacta gcagagtata cggccacgga 60
 acaactacta caaggatga aactacatga gagaaaaagg ttcttacaag acaccactaa 120
 gtatgtgcgg gacgacccta ttcttttttg cattcgtttt gacagaccgt caaagcgatg 180
 tctaacaaaa gaagaacaag ctatcatact ttggcattgc cataactcac cagcagagg 240
 ccactttaac tgagatagaa caactgcaa gatccttcaa gaaacattat attggcctac 300

attctttata gatgcttata accatgcacg atcatg

336

<210> 3259
<211> 457
<212> DNA
<213> Glycine max

<400> 3259

taagctcctt caactgcaca aggctcttaa tatttgaaga gtatccttgc ggaaccttca 60
cccgacgaag aactgacaa aaacttatct tctacttctt ggacaaagta tggcaagctg 120
ggggcaagta aattttcttc ccatcagacc ttggatgcaa ctgtgatctt ataccatat 180
cagctagatc ttgacgggta ttcaagccat ccttcgtcgt gccttgaatt ttaaggagcg 240
tcccaatcac actgtcacia aaatttttct ccacatgcat aacatcaata caatgtctaa 300
cgtcaagatc acaccagtat ggaagatcaa agaaaatgga cctcttcttc catatgcaac 360
tctgactttt atccttcttt tgggtcttcc caaatacagt gttcaggtgt tgaacccgct 420
gatatacctg ctcaccagtg aacagtatcg gcgcaat 457

<210> 3260
<211> 298
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3260

ttccacaatt ttagtcgtgc tatacgagac atcttgccaa cagagtcagg ttaccataac 60
tcgcatgtgc ttttnctttc atgccaatag tagcaaagtc cgtgatecta tctagtttga 120
tgagctggaa aatgacgccg caattatact gtgcttagtg gagatgtatt ttccccctgc 180
ttttttgaca tcatgattca cttgaatgtg catctgggca gagaaatcaa atgttgtggt 240
cttgttatct actgtggatg taccgggtg agtgatacat gaagatctta aaagggtg 298

<210> 3261
<211> 327
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3261

agcttaatta ttttcaactca gaatctttca ttatctatat ccctaggatg agaatttgca 60
gagtttcatt accattaatg ggtggctccg tgatttctta tggacccaca taattcagtc 120
ttatggttct ttattatctg catatgggtct ctctttcttg agtgcacatt ctgtatgggc 180
ttttaattta atgtttctat tcagcggggcg gggttattgg caattctagc atatggtttn 240
tggcacaata atatgcaaag aaaatctctt atgctatgtg tttattgatt atgaagatcg 300
atgatatgat cttcccttaa cgttcac 327

<210> 3262
<211> 356
<212> DNA
<213> Glycine max

<400> 3262
tcttttcttt tagaagatgg tttttaatat gaaagacaaa gttgatacaa ctcatttcag 60
aagagaagta cgcaaaatct cattataatt caaattcatg tagatgaaat tattttttga 120
gttactaatg aatctttgtg tagggatttc tctaactcta tgaagaatga atttgaaatg 180
agcatgagat gagaacttaa gttcattttg ggacttcaat caagaagtat agcaaaggca 240
tatatattga tcaataaaaag tacactaaaa aacttctgaa gaagtttaag atggaagggtg 300
ctaaacctat gaaaaccctt atgcatgctt ctattcctct gagcaaagac aaatat 356

<210> 3263
<211> 446
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3263

agcttcaaga aaaacatggc ctacgcaaac tccttatttc cagaagggaa ttctatcaat 60
agacctcaa tctttaatgg agagggttac cattactgga aaaccggaat gcaaantttt 120
attgaggcaa tagatctaaa tatttgaggaa gccatagaaa tagggcctta tatacccacc 180
acagtggaaa gagtttcaat agatggtagt tcatcaagt aaagcataac tatagaanaa 240
cctanagata gatggtctga agaggataga aaacgagtag aatacaactt ataagccaaa 300
aatataataa catctgccct gggaatggat gaatatttca gggtttcaaa attgtaagag 360

tgctaaggaa atgtgggaca ctcttcgatt aacacatgaa ggaactacag atgttaaaag 420
atctatggat aatgcactaa ctcatg 446

<210> 3264
<211> 322
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3264

agtgaccata agagccctaa atatttggtt gatcaaaaag agctttacat gaggcagagg 60
agatgggttag agttctttaa ggattacgat tttagactta gctatcatct atgtaaagcc 120
aatgtagtag ctgatgcctt aagtagaaaa tcccttcaaa tgtctgcttt catgggttaga 180
gagttagacc tcttagagca gtttatagac atgagnttgg catgtgagat cacctctagt 240
agcattaagt tgggtatggt gagagtcacc agcgaactct tgagcgagat ccgtagaagg 300
cagaagtttg acccattctt gt 322

<210> 3265
<211> 416
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3265

aaaccaaca cagcagctat gagcttatca attaccatca caagtttagt caactttcgc 60
tgtgatgaat caatatatag acttatcttc acttgggact tgggtacacc gtggcctttc 120
atggctcctg acactttatc cacagacttt ttcacaatgg ttttgaaagc caccttactc 180
atattacctt gccgccatga tggtttcaaa acctccctta caaaaatcgc aatggaaact 240
ttgaacaatt tcatcgatct ggaatcctta ctctnttttc ttttcccacg agacttgacc 300
tgattaatct caacctcccc tgaagtcatt ttgcaacat ccacatcatc acttaagctc 360
tcattttcaa cagcacctac ttctgcatct gctggntcac catattcatc attatt 416

<210> 3266
<211> 372
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3266

tattgcaaac tatttcccca attaaaattc tatttcactt tcaatgccag ttataaattc 60
ccttaaaaaat gaactcttaa ataatgattc aaatagaaca atctgaatat aaatataacg 120
caataataaa taaaagagtt caagggaaaa gaaagtgcac actcggattt atactgggtc 180
ggccacaccc ttgtgcctac gtccagtcac caagcaaccc gcttgagagt tccactatct 240
tgtaaaatcc ttttacaagt tctaaacaca caaggataat ccttcctttg ttttcataat 300
tcttttacia caagagaccc tcggtctctt aatccccctc gagaatttag aaagaagaga 360
agaatgaatc tc 372

<210> 3267
<211> 417
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3267

agctntcaaa gtgttccttc gccacatcat atgtggaata cttgggccat attgtgtctt 60
gtcgtggcgt aaagcccgtg ccggcgaaga tagaagcgtt gtaaaattgg ccaactcccc 120
aatctaccag agcattgcga ggcttccagg gcttgtcggg attctaccga agatttatta 180
aaggctattc ctcaattgca gctccccctc cgacactgct tgccaaggat tcattccact 240
ggaactttga ggccaaacat gccttcatga acctaaagca caccctatgt agtgcccctg 300
tgттаagctt acaggatttt tccctcccat tttgtgtgga aatggacgct tccggatcgg 360
ctgggacggt ttgctataaa taccgaagca ttttaciaac atctgtcact ctgtgct 417

<210> 3268
<211> 358
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3268

attccccgaaa attagctntt tatgattata tcggaaataa tccagcaaaa gggggggttat 60
ttatagcagg ttcaatggac aatggagatg gaatagccgt cggttggtta cgacatcctg 120
tctttagaga taaagacggg catgaacggt ttgtacgtcg tatgcctact ttttttga 180

catttccggt tgttttggt gatggggatg gaattgttag ggccgatgtt ccttttctaa 240
 gggcagaatc taaatatagt gtggaacaag tacgtgtaat tgctgagttc tatgggtggcg 300
 agcttaatgg agtcagttat agcgatcccg ctactgtgaa aaaatatgct agacgtgc 358

<210> 3269
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3269

gcttctgac tcgataaagc tactcaaaat caattagcaa gaggtcaacg attgcgcgag 60
 ttgcttaaac aatcccaatc agtcctctt accgtggaag aacagataat aactatttat 120
 actggaacga atggttatct tgattcatta gaaattggac aggtaaggaa atttcttgtt 180
 gagttacgtg cttacttaaa cacgaataaa cctcaattca aagaaatcat atcttctacc 240
 aagacattca ctggggaagc agaagtcctt ttgaaggaag ctattcaaga acagatggaa 300
 ctctttttac tacaggaaca ggtagaaaan naatgattaa tcatttaata actttataat 360
 ttcactttca aattcttata aattagatc tttaatatct ttttatttca tttgaatatt 420
 atattaatat att 433

<210> 3270
 <211> 398
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3270

agcttaagga ttcttaggga actactagag acatcactat cactgccaaa ctacacacat 60
 cagcctgctt agaggtaagg gatgagttta tgcgaattga ggttaaaatg aacatatgta 120
 gtgatgtaga tccatgtgca gcttgtaggc cttggatctt cttcatcaat gaagtttttt 180
 gcttcttgaa gatcaataaa aggggaatag agaaggaaga aagacgatta gagatgtcac 240
 ttcaaggaga agatgagtca agaacaagct caccatcaaa agaagccatg gataagagct 300
 tgaaggtag atgagatgag tggagggaga aggagagaan gagcatgaaa ttttatacct 360
 caaatgacgt ctgaactntg aagtgtaaat ctaaaatg 398

<210> 3271
 <211> 359
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3271

agctnngcac ttgtgatggt gcgagtttat atatatcttg tttccctga taattattca 60
 cgtaaataag tttatattga gatgataatt aggcaaaatt ctttctatga tttttgtag 120
 taatcaacat aattaaagaa ctttntacta ttgagggaaa tcctacaata tttttataaa 180
 ttttgatcat ttagattcat tacgtaacta attcttaatt tataactttg tcatatctaa 240
 agtttattgt ttccattcga acttaaaaat caaacatata aattatcttt cataacctca 300
 atatgtatta tcaaataaat tatactttnt aactnttttt taagataata gagaaacaa 359

<210> 3272
 <211> 365
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3272

agctntgctt ctacacttat cagtgatggt gggtcacatt nttgtaatgc acagttgcag 60
 aatatgttgg ggcactacaa tgtcaagtat aaggttgctt ctccttatca tccctagaca 120
 aatggccagg ccgaggtatc caataaggaa ttaaagaaaa tcctggagaa gactattaca 180
 tcctcaagaa aggaatgggc tgtgaaattg gattatgctt tatgggctta tagaactact 240
 ttcaagactc caattggttt gtccccattt tagatggtct atgggaaggc atgtcatcca 300
 ccgatagaga tgaagaacaa ggcttactgc gctctcaaat tcctcaatnt tgatgaatcc 360
 ttatc 365

<210> 3273
 <211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3273

ttcttatctt catattctag nggctgctac gcatacacct tttcatttat gaatccattt 60
 agaaaggaac ccttaacatc catctgggtat agtttaaatgt ttttgtgtgt tgcataagct 120
 aaaagtatta tgatggcttc aagtcttgct actggtgcaa aggtttcttc atagtcaatt 180
 ccatectttt gattgtatcc ttaagtaacc agtctagcct tgtttatgac tacttcaata 240
 atgcccttga ctgttaactt gttggtagct cacactctat gacacttcac acggtgacac 300
 ttcactcaac ttctcgttag tcagaatcct ctaccagtca gaatccttcg taagtagtct 360
 ttttcgagac ctagacaatc ttctttgact gctttaagag caatgacta 409

<210> 3274
 <211> 403
 <212> DNA
 <213> Glycine max

<400> 3274
 ctggatgcat tggttaactc ggtaacccaa ctggccttga accagaaatc tgtacctgtc 60
 gcaagggctc gtggattgtg ctctctgct gaccaccata cagaccttg cccttccatg 120
 caacaaccgg gagcaattga gcagcccgaa gcttatgctg caaacattta caatagactt 180
 cctcaacctc agcagcaaaa tcaaccacag cagaacaatt atgacctctg cagcaacaga 240
 tacaaccctg gatggaggaa tcaccctaata ctcatggtg ctagccctca gaaacatcag 300
 cagaagcctg ctcttctctt ccaaaatgct gctggcccaa gcagaccata cattcctcca 360
 ccaatccaac aacagcaata gccccagaaa cagccaacag ttg 403

<210> 3275
 <211> 313
 <212> DNA
 <213> Glycine max

<400> 3275
 cgacagttag tgtttactct gatgtcggat aaaggcccg aaaatatcga gacgtcaat 60
 attgaaaaca gatgcagtca gcaaattcaa acgacaataa cttttgactc ggatgtccga 120
 ttgtgtcccg tattatatcg agacgctcga aattgaaaac tgaagctctg agaaaaatca 180
 aacgacaata actgtttact ctgatgtccg actgaatccc ggaatgtatc gagacgctcg 240
 ttattgataa cagaagctct gagcaatttc ggacgagaat aactgttgac tcggatgtgc 300

<210> 3276
<211> 342
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3276

tgctcaccac tactagaggg aaatctttta nggtgtttca taaaaacctc ctcctctaaa 60
tcaccattaa aaaaggatct tttcacatcc atttggtgca actcaaggtc aanatgaaca 120
atztatacca agataatacg aagagaatat ttcttagata caggagaaaa attctctgtg 180
tagtctattc cttctttttg agtaaattccc ttaacaacga gtcttgccct ggatctctca 240
atgttgcccta atgaatccct ttggtcttaa agacctatnt acaaccaatg acctttaccc 300
tattatgcaa ctctacaagg tttgaanact ttgtactctg ca 342

<210> 3277
<211> 416
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3277

agcttctana cntgtacaa gaatgaagct ctgataccac ttgtagaca agtggcctca 60
gatatcttaa gaaggggggg ttgaattaag atattccaat ctttttcccc taattaaaaa 120
tctatttccc tttttactca agttatgaat tcccttaatg acaatcttct taaatattaa 180
ttcagacgaa gcaactggaa tatgaatata aagcaataat aaataaagga gattaacgga 240
agagaaaatg caaactcagt ttatactgg ttcgccaca cccttggtgcc tacgtccagt 300
ccccaagcaa cccgcttgag agttccacta tcttgtaaatt tccttttaca agttctaaac 360
acacaaggac aatccttcct ttgtgttttag agatccttta caacaagaga ctcaca 416

<210> 3278
<211> 437
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3278

tgcagccgtc cgctgcagac atctcaaatt gtgcgcactg tttagttaat aaaaaggaaa 60
 atntttctctt ttacaatttg ataaaaacaa aaattatgca aaaaaatgaa ttaggttata 120
 ntaattttttt ttaaaaagaa taattcagta aataattata aaattatatg gtttaaagaa 180
 tttgtaacag taatgaatga tataatgatg atcattacta tcgtgtatat gtaataacat 240
 aaaaatagat ataaaggttt tcttagacaa ctaacaanaa aagataaaag aatttttagat 300
 tgaataaaag gataaaataa aatttcaa ataaatagat ggataattta aaaaaaaact 360
 tataaaataa tntattctcc ataagttact tcaattagt tatggaaaat aaactactaa 420
 aataacgttg tgtactt 437

<210> 3279
 <211> 318
 <212> DNA
 <213> Glycine max
 <400> 3279

agcttggttc ttgctattcc aagacactat agagcttctt aatatgtggc atgtcccacc 60
 tgtgtatttt ctatataatt tgcaacctgc acaatccgaa tttaaatagc ctattataat 120
 taagggtggca cctttatgat accacaaacc tacattcgta gtgcctttag gaactcaatg 180
 atcctttgaa tgggttgtaa gatagattcc ttaagagttc tctcggtatc tttcacataa 240
 gtaaacactt agtaagatat cctgtctttt tgaactcagt acataagtga tccactccca 300
 cctttatatc ttgactca 318

<210> 3280
 <211> 471
 <212> DNA
 <213> Glycine max
 <400> 3280

agcttggtgga tgttctaaga cgtaatatg gagcgttttc ttggagctca actgacatgc 60
 taggtataga tccaaatttc ctccatcaca aattggtttt agattcctcg gcaaagccag 120
 tcatccgaaa atgaagaaag ttcggagagg ataaaataaa agtaattact gatgaaacaa 180
 agaagttgat ttcagccaac catgtagaa aaattcaata tttgacttgg ctggtgaatg 240
 tggatgatgg taaaaagtca agtgggaaat ggataatata tggtgacgtc acaaatttaa 300

acaaagcatg cttcaaggat tcatatccac taccaaacat caatcgccta gtcaatgggg 360
catcatgttg caaatggctt agcttcatgg atgtctactt aggtataat caaatcaaga 420
tgcattccat ggacgaaaga caaacaactt ttatagttgg ataaccaat t 471

<210> 3281
<211> 362
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3281

cgagggtctc gatataattac gggactcaat ctgtcatccg agaanaaagt tattgtccgt 60
tgaatttgct cagagcatca acattcaatt tcgagcgtct cgatatatta cgggactcaa 120
tcagacatcc gagtaaaaag ttattgtcgt ttgaatttgc tctaagcttc aacattcaat 180
ttcgagcgtg tcgatataatt acgagactca atccgacatc cgagttaaaa gttattgtcg 240
gttgaatttg ctcagagcat caacattcaa tttcgagcgt cttgatatat tacaggactc 300
aatcatacat ccgagtaaaa agttattgtc gttgaattac tcagagcttc atattaattt 360
cg 362

<210> 3282
<211> 385
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3282

cgacaataac tttttactcg gatgtctaatt tgagtcccg aatatatcga gacgctcgaa 60
attgaatgtt gaacctatga gccaatcaaa acgacaataa ctttttactc ggatgtctga 120
ttgagtccca taatatatcg agacgcttcg aattgaatgg tgaacctctg agccaattca 180
aacgacaata actttttact cggatgtccg attcagtggg gtaatatatc gggacgctcg 240
aaattgaatg gtgaacttct gagccaattc aaacgacaat aactttttac tccgatgtat 300
gaatgagtc cganatatat cgagacgctc gaaattgaat gttgaacctc tgagccaatc 360
anacgacata acttttactc gatgt 385

<210> 3283
 <211> 502
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 3283

agcttaacat tcaatntcga gcgtctagat atattacagg actcaatcaa acatccgagt 60
 aaaatgttac tgtncgttta aattgcttag ctctccagct ttaaatttcg agcgtctcga 120
 tatatgacgg gactatatca gacatccgag taaaaagtta ttgtcatttg aatttgctta 180
 gagattcaac attcatcttc gagtgtctcg ttatattacg ggactcaatt atacattcga 240
 gtaaaaagtt attgtcgtta gaattttctc agagcttcaa caatcaattt cgagcgtctc 300
 gatataattac gggactcaat caggcatccg agtaaaaagt tattgtcgtt tgaattggct 360
 cagagcttca acattcaatt tcgagcgtct cgctatatta ccggactata tcagacatcc 420
 gagtaaaaag ttattgtcgc ttgaattggc tcagagcttc aatattcaat tacgagtgtc 480
 tcgatataatt acgggactca at 502

<210> 3284
 <211> 446
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 3284

atcttcttca tcagtggatt ccttttcttc ttggaagatg aatggcaacg gaatggagaa 60
 ggaagagaga gaggagacac aacttcaatg agaagatgaa tctagaagaa gtcaccacc 120
 atatgaggcc atggataaga gcttggagga agaaggagat gaatgaaggg agagggagag 180
 aagagcacac aattttatgc tctaagagag ctatgaaatc tgaagttaa ttttaaaatg 240
 atcaaatttg aaaaatgcac acacatgtgc tctatntata acctaagtgt cacacaaaat 300
 tggagggaac attgaatttc tactcaaatt tcacttgaat ttgaaattga atttgtggag 360
 ccaaattctc actaattatg attagtgaat tttagttatg gttcagccta ctaatccaac 420
 atcaagccca agattcttca ctaagt 446

<210> 3285
 <211> 438

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3285

gcttatcatc aacatgatcc ncatttgggt gttcacatta ccatttggaa tctgtgcttc 60
 ccaaacctcc actttcttca tcaaacaagg tgccatcatg aacagaaata tangcaataa 120
 tggatttggt gttccccag cttcaatttt cactcttgca gccgttggga tgatactttc 180
 agtgaccatc tatgacaagc tccttgtgcc agtgctaaga aaactaacag gaaatgacag 240
 aggaatcagc atcctccaaa ggattgggtat tggaatggtc ttctcagtca tcacaatgat 300
 agtggcagct ttggtggaaa aaaagaggct tgaggcagtt gaaatgaatg gccattaaa 360
 gggttctttg tccatgagtt gcccttgggt ggccccacaa tttatgatca ttggatttgg 420
 tgatggggtt gctcttgt 438

<210> 3286
 <211> 437
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3286

agcttcgatg gagaacaacc ttatgttgta gagggtagac gcacggagaa gaagataacg 60
 ggagaagaag aaagcgcgag caaataggt ggcgtctaataa ataatttaaa ttgtaagttc 120
 aacatcagtt ttcaatacaa aagtgatgtt aacgttaaca tcagttttat tcaagaaacc 180
 aatgttaact aatcatacat taacatcggt ttccagaaac ccgatgttaa agtaacttcg 240
 ttaacatcgg ttttcttgaa acccgatgtt aacgtatata cattattcac aattatgcca 300
 ccacatttat cttaacatca tntttaaaaa aaaaaaaact gatgttaata aagtctcctt 360
 atttaaccat ttngccaccg tgttttggtta acattgattt tatcaaaaac cgatgttaac 420
 ttaacgatgt taaatgt 437

<210> 3287
 <211> 568
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations

<400> 3287

agcttgtatt gaacactact tatatatata tatatatata tatatatata tatatatata 60
tatatatata tatatatata tatattaaag aaactaattn gtgtacccaa aaatatgact 120
ataccaaaaa agtcactaat tcaaaaaataa ataagtctca ttaggtaaat ataataaatt 180
taattcatta aaaacttctt taggtgtgat atacattcat tcactaaata tatatatattt 240
tttttcaaaa atgataacat atatgtcaga gtgctcagga ttcttcctag tgcacagtg 300
aatgcttctt ggcaattatg tntcctcttc ataatatgtt atgtatgttt ttattacact 360
aataaaaaaca attattaaaa aaattattnt tcaatatcaa tgagtacaaa tgaattatga 420
tgtaaaaaat acatatattt tttagaaata aatactttaa ttcgtatcat tataaacgtg 480
gaaaaaata aatacctata tagccatgtg ttaatataca agacagtgag gagaaaaataa 540
atgtgtaaaa gaatatatac atatttaa 568

<210> 3288

<211> 603

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3288

aaagaaaagc atatagtcca tgcgttcaag tttagtttta acatggcact tttacttcgt 60
ataatttttc gtttgtttta atgttattac ttattagact aagattcgct aagtctcata 120
tntaagtttt atgaataaaa agatgtataa ttaaaagaaa aaatttcatt aaaaatgatt 180
gaacttgtct tagatgcatn gttgcatttg ttggaaacaa taaccacaat gaaatttaaa 240
cttaaaattt cgtacacatt tcctaaattt atcaccacta acctaattct aatagttttc 300
ttttacataa atatacattg ataaagcttc gatacttaat taagtattta gaagacataa 360
gagttattct taatgacttt tatacttcaa acgaatatct tatataaaga aaatagaatt 420
ggttttatat attaagaaat atttatattt ttctacttat ctataactaa atactcatat 480
cttacataaa agtaatcggt ttattcttat ttagttaatg agctacaaaa aaagtgcaga 540
tattgtttta aactcgctga tatgagtggg tactagaata cctctactat gatagatcat 600
ctg 603

<210> 3289
 <211> 333
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3289

ttagtccaga cttctaagtc tcttaatctc tctctgtcta aatcaactaa ctcatctgac 60
 atcattttcc aataatggtc gatcggaatg tccatttggt tttgtactct agctgattgc 120
 aaatgtattt cgaccggaag tatagcatcg tgcccataag tcagtcgaaa tggggtagta 180
 ttaagtgatt ccctatgaga atttctacat gcccatagaa cttgatctaa cgttntattc 240
 caatttcttg gcttttgggc aatgtgtttt ttaatcaagt tgaatacaat cttattggct 300
 gcttcgacct gaccatttgc ttgcgcataa tat 333

<210> 3290
 <211> 510
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3290

agcttccttg tcgaatntca agcgtcgagg tatatgttgg gtctcaatga gacatccatg 60
 tcaaatgtta tagcggtttg aatatgctcc agctttcgtg tctctcgata ttttaagtcaa 120
 aagttattgc cgttgaata tccctggagc attgggtctt catctcgagc atctcgatat 180
 gttatgagcc tcaatcgga aacttgagtca aaagttattg caatttggat tntccagtag 240
 actccttggt caatttcgag cgtctcgata tattatggac cgcaatcaaa aataaagtca 300
 gaatttatgg gaatctaaat ttgctgggag ctctgatgtt caatttcggg cgtctcaata 360
 tattatggga ctcatacaga catccgagtc aaacgctatg ctagtttgat ntttttggga 420
 gattctattt caatntcgag agtcttaata tggtatggcc tgcaatcgga tatcatagat 480
 agaacttatg gccattgata attggctgga 510

<210> 3291
 <211> 385
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 3291

agcttctaaa cntatatacaa gaatgaagct ctgataccac ttgttagaca agtggcctca 60
gatatcttaa gaaggggggt tgaattaaga tattccaaac aatttcccct aattaaaaat 120
ctatttcact gttttactca agttatgaat tcccttaata acaatcttct taaatattaa 180
ttcagatgaa acaatttgaa tatgaatatc aagcaataat aaataaagga gattaaggga 240
agagacaatg caaactcagt ttatactgg ttgggccaca cccttgtgcc tacgtacagt 300
cccaaaciaa cccgcttgag agttccacta tcttgtaa at cccttttaca agttctaaac 360
acacaaggac aatccttcct ttgtg 385

<210> 3292

<211> 342

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3292

cctcatcagc aaaatcaacc acagcagagc aattatgacc tctctagcca cagatacaac 60
cctggatgga ggaatcacc taacctcaga tggccaacc ctcagcaaca acaacagcaa 120
cctgctcctt ccttccaaaa tgttgttggc ccaagcagac catacattcc tccaccaatc 180
caacaacagc aacaaccctt gaaacagcca acagttntag gccacattat ttccaataag 240
ggatttgaag tagatcctgc aaaaatttct gttatttcac aatngcctta ccctcctgt 300
gtgcgagaag agtgatctnt tcttggatcat gcaggattct ac 342

<210> 3293

<211> 484

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3293

gcttctaaac ttatatacaag aatgaagctc tgataccact tgtagacaa gtgaccttag 60
tatcttaaga agtggggttg aattaagaca caaaaatata cctaattaa atataactct 120
ctttttaatt aataatgaaa ccctaattat gaattatttc aagaacaatt cacaataaaa 180
cttctttaaa gcgaaatata aactgcaata aaataaaga agttaaggga agagagaatg 240

caaactcaat tttatactgg ttcgccacg ccctgtgcct acgtctagtc cccaagaaac 300
 ccgcttgaga ttccactatc ttgtaaaatg cctttacaaa gtctgaacca cacaaggaca 360
 acccttccct cacattcaaa aatccttaca acataagaga ccctctgtcc cttaatcaat 420
 ntctttgaat gagaagaaga aaagaattct ctctttaaga gaaaatatac aatggaagat 480
 actc 484

<210> 3294
 <211> 364
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3294

gaagatatcc taacactttc ttgcccgtg tctagagctc tatacctgaa ttactctgat 60
 atcttccaag cattccaacc acaaagcaa tgtcaagtct tgtacacacc tgcgcatata 120
 taaagcttcc tacaatggaa gcatatggaa tgtttctcat ttgttccctt tgaagcttat 180
 ttttatgaca ttgattcaaa ttgaatctat cacctttcac aataggtgtc atgttgggtg 240
 aacaatcttc atncgaaata tttctagaac tttgttagta ttggccttct tatagagccc 300
 gagaatccct tgatatcacc atctatggat ctctatgcc aatgacatatg ctgcctcacc 360
 cata 364

<210> 3295
 <211> 394
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3295

acttaaaatt ctggaagaag acaactaaca atctttttga attggaaccc gtgaatgcta 60
 tgccttatgt tattgtgtct aacatgcatt atgaatctcg gaaatgggat gatgttgtga 120
 aatacaaggt tggatgaaatc aaaggaataa caaaggagcc tggatgtagt tggatcaaga 180
 tgaactacag agtgcataca ttcatttctg aagatagagg acatccaaag gaagctgaga 240
 tttgttccaa gattgatgaa atcgtaagaa gaactaagga agctgggttat gttccagata 300
 tgaatttttt gttgcatgac atggattcag anggaaaaga agttggtctt gcttatcaca 360

gtaagaaatc ggatgttgct ttgggattac ttgc

394

<210> 3296
<211> 242
<212> DNA
<213> Glycine max

<400> 3296

cctttatata tttgaggac tcatgggcac tctgaattac aaattccctt ggataaaaag 60
gggtgttgcca tgttttcaaa acccgtactt aagcgtacaa ctccctatta taaattgaat 120
aatttaaggt gagaccactt tactttttac ttaaataaac catttgattg gcctctttca 180
ttaacacaac ccccatcca acattttaaa cattacactc catttttaaa aaatttttaa 240
aa 242

<210> 3297
<211> 418
<212> DNA
<213> Glycine max

<400> 3297

agcttccacg ttcaatttcg agcgtctcca tatgttacgg gacttaatca gacatccgag 60
aaaaaagtta gtatcgtttg agttggctca tagattcaac attcaatttc gagcgtctcg 120
atatattacg ggactcaatc agacatccga gtaaaaagtt attgtcgttt gaattggctc 180
agaggttcaa cattcaattt cgagcgctc gatatgttac gggactcaat cagacatccg 240
agtaaaaagt tattgtcggt tgaattggct cagaggttca acattcaatt tcgagcgctc 300
tgatatgta cgggactcaa tcagacatcc gagtaaaaag ttattgtcgt ttgaattggc 360
tcacaagttc aacattctat ttogagcgtc tcgattgtta cgggactcaa tcagacat 418

<210> 3298
<211> 332
<212> DNA
<213> Glycine max

<400> 3298

agctttgagc taattcaaac gacaataact ttttgctcgg atgtctgatt gagtcccgt 60
atctattgag acgctcgaaa ttgaattctg aacctcagag ctaattcaaa cgacaataac 120

tttttactcg gatgtctgat tgagaccggt aatacatcga gacgctcgaa attgaatggt 180
gaagctctca gcaaattcaa acgacaataa cttttttcct cgaaggtctg attgagtccc 240
gcaatatatc gaaatcatcg aaatggattt ctgaagcttt gacctatttc aaccaccaat 300
accttttttt tcgaatggtg gattgagtcc cg 332

<210> 3299
<211> 137
<212> DNA
<213> Glycine max

<400> 3299

tgggttcata ctatgtagct catcatgatg tatcttttcc attccaatga tctatgcttt 60
agagccttct tcggatggtta catagctagt ggagcatggc tgaatgttca ccaggaattc 120
tttaacttct gtcatgt 137

<210> 3300
<211> 580
<212> DNA
<213> Glycine max

<400> 3300

ctgggttatca actcgtcccc cgggtggtcc attcaaccg tcttttttat gatcttccat 60
gcccattgat catcctcaa atccaatgat gaatctgtct cctctaaatg cttctccaat 120
gaaccctgca ggaattggtt cttcaccttc gatgctacgt ccacctcatt tccaacagtt 180
ctatgatcaa caacaccacc atcaacatcc tcagtctttt ggacttcctg gtcggcctga 240
atatgatccg tcatccaagt ctttcaaagg ggtctttggg ccacttccat ctgatgttgc 300
aatggagctc agtaatgtcc ttaacaatct gaatggtaca aaagaatcca tcaaagggtgc 360
aaaacttttg ttcatgcaga gatctccatt tgcaccagcc ctagcagaag ctcttacaga 420
tagggctctt gcattggatg aagttgagag acaattacac ataataacc ttgccaatga 480
catacttttt gacaggtatc atatttgatt aattcacata ttataaaatg ttagaaatgt 540
tcttctaata agcagaaaag atggatcaca catacaccta 580

<210> 3301
<211> 449
<212> DNA

<213> Glycine max

<400> 3301

tctcgatata ttatgcgcct gaatcaaact ttcgtttcaa aagttattat cctatgaatt 60
tctccactgt attccgtgtg acaagttatg accatttgaa tttctcgata gcattcgttg 120
ttcaatttcg agcgtctcta tatattatgc gcctgaatcg gacttccgtg tgacaagtta 180
tgaccatttg aatttgtcga gagcattcgt tgttcaattt cgagcgtcct catatattat 240
gcgcctgaat tagacattcg cgtgacaagt tatggccata tgaatttgtc gagagcattc 300
gttgttcaat ttccagcgcc tcgatataat atgcgcgtta atcggacttc cgtgtgacaa 360
gttatgacca tttgaatttc tcgagggcct cccgtgttca atttcaagct tctctatata 420
ttatgcgccc gaatcagact tccgttttaa 449

<210> 3302

<211> 379

<212> DNA

<213> Glycine max

<400> 3302

ttctggtcgg tattgatttt tggatatatcc cttcaacact ttcattgtagc gttcaactgg 60
atacatccac cacaaaaaaaa cccgaccaca caaccaatt tccctcacia gatgaacaat 120
taggtgaacc atgatgtcaa aaaatgatgg taggaaatac atctccaact ggcaaatgac 180
aatggcagcc tcatttctta agtcattcaa ttgttgagga ttaatgaatt tgctacatat 240
ggcattaaaa agaaagcaca aactgggttat ggcaacccta actttgtcag gcaagatgcc 300
gcgaatcgca acaggcaata attgttgcac taagacatgg caatcataag acttcaagcc 360
aaccaactta agatcattg 379

<210> 3303

<211> 448

<212> DNA

<213> Glycine max

<400> 3303

tttttggctt ttattgaatg ttgagtttgg gattaaccac aggctgtgag aaaagttctt 60
ccctcgctga atggtaaaac tactgggatg tccctccaag tccccctga tgatgtttca 120

aatgttgacc taactgtcat gctaaagaag ccagcatcct atgagcaaat caaagctgct 180
atcaagttag tttttgaacc tttttgaaaa tcttttcatt tggcagatcg aatcatgttt 240
ttttcccggt gacccaacaa ctttttgtgt tcaaatttca gggagaatc aaaaggcaaa 300
ctgaagggtg ttttgggata caccgaagat gatgttgtgt ctactgattt tgatgggtgat 360
aacacgtgat gttgtgttct gaagcaacat tggaagataa actatcatga tcactttttt 420
ggtgttctct tggctataa tgacttac 448

<210> 3304
<211> 521
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3304

tagcccatca tcaatattga tttcagaaaa aaaagcaag tgattatatt gaactgagcc 60
agaccaagga aaaatacatc aaagaaaata aataatctag tatagctaata ttataatca 120
gataaagcat ctgagacctg ctgccatgtg gtatcaacag gaagctgccg ccgagcatcg 180
ccagcatcaa aatccagtac accataatcc ctcaaccgaa tctacacagc aataactaaa 240
atcagaagtc tttttgagga ttaaattgat ggcattatct ataagacaca tttttcaaat 300
tgagacaaac ccgaaggaag gcacggattc tttgcaaatt cccaacacca ccaccaagag 360
cagcctacca ttagataaaa aagcaagcag aaattaagtg ttgataaaa atacaaattc 420
atgcttgctc tcttatatga attaagaaat aaagaacagc ngatataaac aaaaaaaatt 480
gagagaagct tgcanagtat ttcactattt cttggagcat g 521

<210> 3305
<211> 408
<212> DNA
<213> Glycine max
<400> 3305

gctaaccat ggaagctcct aatatctcct acactttttg gagtgggcca ttcttggatg 60
gccttgattt tataaggtct cttggaccc catttctacc aactacaaac cctaagaaaa 120
ctatattatc tacacaaaaa gtacacttct ctatatttgc atagagggtg tttttcctaa 180
ggactgaaag aacttgccca agatgtccta agtgatcatc taagctccta ctgtacacta 240

aaatatcatc aaaataaaca actacaaatc tacctatgaa atcccttaag acatgatgca 300
 taagcctcat aaaggtgctt ggtgcattag tgagcccaaa aggcacact agccattcat 360
 acaaaccaaa cttggtcttg aaagccgttt tccactcatc actctttt 408

<210> 3306
 <211> 448
 <212> DNA
 <213> Glycine max

<400> 3306

tatccccata agagtgcaga acagctggcg agtcagcatt gattatatga ggctaatacca 60
 ggtaacaaaa aaagatcatt tccccctgcc attcattgat caaatgcttg agcgcttggc 120
 aagtatgtct cattacaatt tttttatggc ttttctggtt atttacaaat tcatattgct 180
 cctgaggatc aagaaaacac cacattcacc tatccctttg gcatttttgc ctataggagg 240
 atgccctttg gcctatgcaa cgcctctggt accttccaac ggtgtatgct tagcattttc 300
 aatgattttt tagagagttg catagatgtg tttatggatg attttactgt ttatggatcc 360
 tcttttgatg catgtttgga tagtctagat agagttctta atagatgcat tgaaactaac 420
 cctgtgctga attttgaaaa atgtcact 448

<210> 3307
 <211> 442
 <212> DNA
 <213> Glycine max

<400> 3307

agcttcgaca tcagaccact tccgggtgct ggttctactt cacatggatt tgatggggcc 60
 tatgcagggt gaaagtcttg gaggaagaa gtatgcctat gttgttgcg atgatttctc 120
 cagatttacc tgggtaaatt ttatcagaga gaaatcgga acctttgaag tattcaaaga 180
 gttgagtcta agacttcaag gaaagaaaga ctgtgtcatc aaaagaatca ggagtgacca 240
 tggcagagaa tttgaaaaca gcaggttcac tgaattctgc acatttgaaa gcatcactca 300
 tgagttctct gcagccatta caccacaaca gaatgggata gttgagagga aaaacaggac 360
 tttgctagag gctgcttggg tcatgcttta tgccaaagaa ctttcctata atctctgggc 420
 tgaagccatg aacacagcat gc 442

<210> 3308
 <211> 395
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3308

agcttnacca ttcaatgaac ataaaaactt gctaggagac attcataatg ctctgaatat 60
 agaaatgtat gacagaacaa aattttgttc tccaacaaat aaacaatcaa tcaaatgaat 120
 gtttattatt attatgctgt aataatttgt gtaattaaca gaagacctct agtccatata 180
 atacaccggc gtgttgctgg tgctcatcct ttacaaaata aatgtcaaca atcttctgga 240
 acgcgtgcc a cgtgagcaag ctgtctgacc cagcctgggtg gcactgccct acggcgcggt 300
 ccacgttaag cgaccggggcg acgcgggtcca atccgccgta gagcgtgtca cagaacctca 360
 tcatgtgctt gacatcataa acgttggtgcc caaaa 395

<210> 3309
 <211> 318
 <212> DNA
 <213> Glycine max

<400> 3309

tctgttttca attacgagcg tctcgatata ttacgggact ctatcttaca tccgagtaaa 60
 aagttattgt cgtttgattt ttctcaaagc ttcagttttc aatttcgagc gtctcgatat 120
 actgtgggac acaatcggac atccgagtca aaagttattg tccgatgaat ttgctcagcg 180
 cttctgtttt taatttcgag cgtctcgata ttttatgggg ctctatccga catccgagtt 240
 aaaagtcac gtcgattcat tcttcttaga gcttcccttt tcaatcacga gcgtatccat 300
 attctacggg acaccatc 318

<210> 3310
 <211> 514
 <212> DNA
 <213> Glycine max

<400> 3310

gcttgaacct tgaatcttga ttcttgaaat caactttcct cttgaatctt gaagtgttgt 60

tcttgattct atcttgaaca tcttgaactc attctttgat tgacctttga gctttttgtc 120
 atcacctttg tcatcatctt tgttatcatc aaaacatctt tgaatcaatc ttgattcatc 180
 atgaagcttt gcgtctacag ctggatcaac acaattctca tgctaaaagt tttagaatgg 240
 ccagggatag attggcagat gatcaagccg ataatatcaa attgcaactg atagctgctc 300
 ggggaaaaga tggccatgca tataatatgc ctaatgttcc cgatattgct gcactaattg 360
 ttggcgattt tcatccaggc tcaaaaagag atattattgt tgaaactcaa aatggagaat 420
 taaaaagaat ccatgaactg caccatagct atctaccact acagtacctt ctactctttc 480
 cttatggaga agatggatat agagctgaca tact 514

<210> 3311
 <211> 727
 <212> DNA
 <213> Glycine max

<400> 3311

tcaacaatga ttttccattt atcccttcat gttcaggaat attctttctt gcaagctaag 60
 aattgttgaa caattactta ttgtatgata ttgatatttt ttataacctt catctgattt 120
 taaatctaaa atgataatgt aaagagataa tgaggggaaa aactagaata aatattattt 180
 tcaatttaaa ttcaaactat cttttgttaa tagataacac aataattttt ttaataggag 240
 aggacaaaag aaaaaaaaaa caaaagcaac taaaaatgtg gaaacttaat tcccacactt 300
 aatcagcttg aagtggatgt gatcattagt agttgcttca tgtttttcta aaaaatcaac 360
 tgatacatc tattataaag atttaatttg aattttacat aagacaaata tgatagttaa 420
 aaaaactctt ataagataag ctatataaag aggtgactga taaaattgta taacacatta 480
 aagaaaacat taaatactat acaagcataa aaaatataag attatatata tactatgtgt 540
 gtatatataa tcaactaatg taattagctt attcaaatta ataatagcta taacacgtat 600
 aaatattttt atatgtataa attaattaaa acatatattg gattttctct ctccctctct 660
 ttcggttaaa agaaaagata aattcaatta ttaaagataa tgtgataaat ttccttttaa 720
 tttttttt 727

<210> 3312
 <211> 566
 <212> DNA

<213> Glycine max

<400> 3312

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tccgattcaa gcgcataata tatcgagacg ctcgaaattg aacaacggaa ccagtcgaga 120
aattcaaatg gtcataactt ttcgctagaa tgtacgattc tgggacataa tatattgaga 180
cgcttgaaat tgaacaacgg atgcgctcga gaaattccaa tggtcataac ttttcacatg 240
gatgtccgat taagggtgcat aatatatcga gacgctcgaa atttaacaac agaagctctc 300
gagaaattca aatgggtcata agttttcaca tggatgtccg attcggggcg atgatatatt 360
gagacgctcg aaattgaaca aagaaagctc tcgataaatt taaatgggtca taacttttca 420
cacgaatgtc cgattcaagg acttaatata tcgagacgct caaaattgaa caacggaacc 480
tctcgagaaa ttcaaattggt cataactttt ttctcggatg tctgattctg gcgcataata 540
tatcgtgatg atcgaaattg aacaac 566

<210> 3313

<211> 576

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3313

agcttttagct tcttaaggaa gttttctcaa agaagcttct caaggaagtt ttcttaagaa 60
agctttctcaa ggaagttacc tagtctataa ataaaagcat gtgtaacact tggtataact 120
ttgatgaatg agagtcttgt aagacacaac tcaaagttca acttctctcc ctttttcttc 180
cttcaatttc gtgctccctc ctctctttct tttagcaaat gctcaccccc ccctctaaaa 240
tttaattgga ttgggcttct cccaattcaa ttaaatttat tttcaaccac acacatcaaa 300
tattcactta atgcatgcc aattagaaaa ctacccttaa tacaaaaaac tagtctaggt 360
gccctaaaat acaagagatg aaaaatctta catttctagg gtaccttaac tatattgtgg 420
agccctaaat acaaggccca aaaataatga aaccttaatc taatatgtac aaagataagc 480
gggctcatat ttagcctatg ggtccgaaat ctaccctaag gctcatgaga accctanggc 540
cttctctgc atctctggtc caatcttctt ggagtc 576

<210> 3314
 <211> 573
 <212> DNA
 <213> Glycine max

<400> 3314

catgcaagct tcaagaatta tggcctcatc aaactacttg ttttctctag gaaattctat 60
 aaataaaact tccattttttt aaggaatggg gtaaccacca ctggaaaacc cgcattgcaa 120
 tctttataga ggcaatagat ttaaataattt gggaagccat agaacaagga ccttatgttc 180
 cctctataat ggccggaagt gcaacaatag aaaaacctag agcagattgg actgaggaag 240
 aaagaagatt agtaccatat aatttaaagg ccaaaaatat tattacatct gccctaggaa 300
 tagatgaata ctttaggggt tcaaattgta aaagtgtctaa agatatgtgg gatacactac 360
 aagtaacaca tgaaggcaca acagatgtta aaagatctag gataaacact ttaactcgtg 420
 aatatgaact ttttaagatg aatgtaaag aaagtataca agacatgcaa aagaggttca 480
 cgcacatagg taatcatctt gcatctctag gaaaaacttt tcaaaatgaa gatctagtaa 540
 ataaagtctt aagatgtctt aatagagaat gac 573

<210> 3315
 <211> 352
 <212> DNA
 <213> Glycine max

<400> 3315

tccttgatag aatgtccatc cactacaaca tgttttgtgc gatcaagaca aactggattg 60
 ggtgctctag ctatgggtgc tttattaaca caaacagat ccattggatc ttgagctgaa 120
 cacatgactt actctaccta cctcttctac cagaagatgc ctcacgctca tatgaccata 180
 cctctaaact gcgcttctgc actagataac acaaccacct tctgcctttt actgctccga 240
 gagacaagat ttccctccac aaatgtgagg tcacctgata tggaatgttt agtagttata 300
 ctccctgccc catctgtatc aatataaccc tgaatgtgct gatgctatct tt 352

<210> 3316
 <211> 491
 <212> DNA
 <213> Glycine max

<400> 3316

ttttaatggt aaaaggtata agacaccct atgttttct ttaacccaaa aatggcctta 60
 ccttaggacc tgaagtggta caacaaacca caaagaaagt caatttgatc caagaaagga 120
 tgcccactgc tcaaaatagg caaaaagggt atcatgataa aaagaggaag gatttggaa 180
 tcaaggggtg tgatcatgta ttcttgagag tcacgctgtg gactagggtt ggtcgcgcat 240
 tgaaattccc aaaactcaca ccttgcttta tcggcccttt ccaaaatctt aaaaaaattg 300
 gccctgtggc ataccaaatt gcatttcccc cgtctctttt taatcttcac aatgtcttcc 360
 atgtgtctca actccctaag tatatccatg atccatccca tgtgattgaa ttggataacg 420
 tacaagtgaa agagaatttg acatatgaaa cattgccttt gacgatcgag gataggcgaa 480
 caaaacacct a 491

<210> 3317
 <211> 427
 <212> DNA
 <213> Glycine max

<400> 3317

tgcatgattt acatctcccc ctttctcaag caaattcttc ttgatatcat caaaatcttc 60
 atgatccga ctcgttgggtg gaggatgcgt gaatgacaat caattcatgg ggctaccaat 120
 aaaaatggag aatggaggat tagcgaataa cgctacgcaa tcaattcgcg gttctaccga 180
 ctcgttgggtg gaagatgaat gaatgacaat caactgatgg ggctgcgaat aaaagtggag 240
 aatggaggat aggagaatag cgcgtggcaa tcaattcacg gggctgcaga ctcatgggtg 300
 gaggatgcaa gaatgacaat caactaatat ggcttcgaat aaaagtggag aatggagaat 360
 aggcgaacag cgctaggcaa tcaattcggg gggctgccga ctcgttgggtg gaggatgcat 420
 gaatgac 427

<210> 3318
 <211> 538
 <212> DNA
 <213> Glycine max

<400> 3318

tcaacattca acttcgagcg tctcgttata ttatcagact caattttatc tttcgagtat 60
 aaagttattg tcgtttgaat tttctcagag cttcaacatt caatttcgag cgtctcaata 120

tatgacggga ctcaatcaga catccgagta aaaagatatt gtcgtcttaa ttggctcaga 180
gcttctacat tcaatttcga gcgtctcgat atatgacggg actcaatcag gcatccgagt 240
aaaaagttat tgcggtttga attgggtcag agcttcaaca ttcaatttca agcgtctcga 300
tatatgacgg gactcaatca gacatccgag taaaaagtta ttgctggttg aattgggtca 360
gagcttcaac attcaatttc gagcgtctcg atatatgacg ggactcaatc agacatccga 420
gtaaaaagat attgtcctct gaattgggtc agagcttcga cattcaattt cgagcgtgtc 480
gatatgttac gggacttaat caggtctccg ggtaacagat attgtcgtct gaattggc 538

<210> 3319
<211> 534
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3319

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taacctaatg taacaaaaaa aaattacaac tgtcaactgg ttatcaaggt ttaaaaaaaa 120
aagtctgcaa catcaaagtt tccaagtggc agggaaaggc ggagagctaa taacaaaatc 180
accaaataca ccaacacaaa tctcaatatc tatcaactaa ctgatcgaat ttcttcaagc 240
aaaaagctaa catttaacag aattttacca aaaaccaagg catcacaaat ccgatcgaat 300
ataatacaat ctcaattcaa gccaaactgtt caaagatttt accaatctcg acgccaagac 360
cctacatccc gcatatgaga aagttggaac cgaagagcct ttgcatgac tctcgcccat 420
acacggcgag ttgtcagctg tggagatcct catcgatgtc cggcggggtt gatttgccca 480
aagccatatt ggacgtcct tactcgcgt ncccgctgtt gctgcatata gtgc 534

<210> 3320
<211> 670
<212> DNA
<213> Glycine max

<400> 3320

tcaacaatac attccttctg aaacgggtcg tatttctcac atgaattgag cctatgtaga 60
tatctttcaa tatgatacat tcaatgatat tgcatttttt ggatcaagtg gcctcaaaat 120

aattaagaaa ggggggttga attaattatt aacgtgtctt gactaattaa aaatttatcc 180
 ttcttaatgt tactagattc aatcaagctt tactactaag ttatgagaaa gtaaagaaca 240
 gaaacaataa cttagacaaa agtaaagcga acacaacaaa aagataaaga gtgtagggaa 300
 gaagaagaca aacacaagat ttatactggt tcggccacaa cccgtgccta catccagtct 360
 ccaagcaacc accggttctt gagatttcca ataactttgt aaaatccatt acaagcaaag 420
 acccacaagg gatgtaccct cccttgttct ctttcaacaa ccaagtggat gtaccctcca 480
 cttgaactga tccacaagag atgtaccgtc tcttcaatgt ctttcttggt cttcctctgt 540
 tcctttttaa aaaaattaaa aatcatgcaa tctactttta gcaccaatgt atccaacatc 600
 tttctttata tggttgcaaa ccatcttacc aatttttctt ttggcatctt tttgtggagt 660
 cacttgatgc 670

<210> 3321
 <211> 513
 <212> DNA
 <213> Glycine max

<400> 3321

tcttagtctc ggctgatgaa gatgaattca tggttacttc atgcactcct ctaatgacaa 60
 tagcatcatt tctggcacta aattggtggg agtttgaagc catcttctca attaaatttc 120
 tggcttcagc aagggtcatg tctccaaggg ctccaccact ggcagcatct atcatacttc 180
 tttccatggt attgagtcct ttataaaaat attggaggag aagctgctca gaaatctggt 240
 ggtgagggca actagcacat aattttttta atctctccca gtattcatat aggctctctc 300
 cactgagttg cctaatagcct aaaatatcct ttctgatggt cgtggtcctg gaagcacgga 360
 aaaatttttc taaaaatact ctcttgaggt cttcccagct cgtgattggt ggaccttggt 420
 gcctcagata tcttaagaag ggggggggtt aattaagata acacgaacta ttccccaatt 480
 taaatcttgc tctctctctt taattaacaa tgc 513

<210> 3322
 <211> 438
 <212> DNA
 <213> Glycine max

<400> 3322

tgggtactaca tctggggttg attcagcatt aaaatatata tccttctaatt cattacatga 60
 tgttggttttg attataatga attaaatgaa gagttcattg ttttaggggtt caagatgtgt 120
 acttgcaggg gaccatcttc aacttcctcc aaccattcaa agtgttgaag ccgagaagaa 180
 aggcttagga agaacgctct ttgaacgact tgcagaagtg tatggagatg aaatcacatc 240
 gatgcttact gtccagtacc gtatgcatga acttatcatg gattgggtctt ctaaagagct 300
 ttacaacagt aaggtactcc cagtttttaa agtgtgtctc aagattgcat tcattgtaaa 360
 gcaatcttta tatgccacta caaagcataa tttatcaatc ctgaactgca aaattctatt 420
 atgttgggggg ggtggggg 438

<210> 3323
 <211> 618
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3323

agcttatatc tagatgtcaa ataaagaaga gttctctgcc tcatatcttt gattatgatt 60
 tgggtcaaag caaaccactg tgcaatcaaa gttctatcta gatcaagggt gtcaaaatat 120
 taagtggcct tctaattctt aattaacttg tgtgatatta atgtgttttg attatacatt 180
 atgtttttct ttaaaatcta ttaattggta ttttttggat cactatataa ttgatgtgaa 240
 gtgtatatta agtttggtga tgattaattt ttgttaagaa atttgactga ttatttttaa 300
 tgaaattttt tcactaaatc atatatataa agctcaaatc tgatattatt ttaaaaaaaa 360
 tcaaattcaa ttccattcaa attaatgatt ttttgggtatt tatttatttg tatgaattac 420
 taagatgggt cattttgaga ttgttacgtg ttagattaac attaaaattt tagattcatt 480
 aaaccaaact ttttttaatt ttcatattga tcaaaattga gaaaatacgc gggggattct 540
 tttttatcat atttttgnga tattgngttt tgtatgtaat aattaataaa aaaaattaag 600
 gaggtcaatt ttttttat 618

<210> 3324
 <211> 301
 <212> DNA
 <213> Glycine max
 <400> 3324

ttttttttgt gaaactatct catcctcttt ttcaagtgtg aaatgaagct tgacaagttc 60
 aggtgcaagt gctgctactg gtggaagcac ttgaatttgg ttgcctgacc acaaagggat 120
 ggcactccca tttttcgaat ttgacacagt ttgggaaagc aatttgttat aattttggga 180
 ctgagcttgg ttcaactgag tagccatctg ccccatctga tttgtcagac tctgaatgga 240
 ggctcttgtc tcttgcgtgaa atttcatatt ctggatgggc atttgcctca ctaattcttc 300
 t 301

<210> 3325
 <211> 674
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3325

tcgagccaaa atcctgactc accataaacc tggaccagg gtggaaatgt caatccttac 60
 cctcggaagc aaaaagaata gaaaggggaat ttccaatcaa aaaaaataga aagaaaattt 120
 cccatggaag ccaaaaaaga aaagaaagaa aattcccaa tcaaaaagtg ggagaaagca 180
 aaaagaaaag aaaggaaatt cccaatcaaa gaatgggaga aagtaaaaaa ggaagaagaa 240
 gaaggaaaga aagctcctga tcagggatcg aaggaaaaac agaagaaatg tgcagagagg 300
 tcttttagacc ggacaatatc tgaacaatac agaattgtca ccaaatgaac aaaaagaagg 360
 aaaggaaacc acgacctaaa atggtcttct ccctttgatt accaaccaaa atcccgtgcg 420
 ctagegactt tttcgccccg cactaaacaa aaaaacagaa aaagaaaaag ccaacaaaaa 480
 atcaaaagcc aaaaacacac aaaagccgaa aaaccacca aaagaaccca ttcccaaggg 540
 aagtcctatt gatccatgat cacacatgnt aattttgatt tgataggaaa taatttgcaa 600
 agtcaagtca tgatatatct atggttcgga attaggatga aacacttacc tgtgcgagat 660
 tgatacactt tgag 674

<210> 3326
 <211> 575
 <212> DNA
 <213> Glycine max

<400> 3326

cgacctgccg gctgcaagct taaaaccctcct tgttcattac taaacaagct gattttttta 60
tcacaatcac aagcaagatg ctctaactg tagaagaaaa caaattcaaa tgaaatgcaa 120
taaaaagtag agaagggaaa gaaaggctaa gctgcctccc aataagcgct cttttaacgt 180
cattagcttg acgctctctt ctgttatcca agatcaaaca aggttcctac ttcaagcacc 240
ttcttctcag gtctcctttc ctccatccca tgcactttta gacagacatt ttggctaggt 300
ggatctttgt cctcatggaa caaatcaaag ctgatcttct gatcttctat gccattttgc 360
agcattttct ttcccatgtc tacgacgcag ctgcagtag acatgaatcg gcatccaaga 420
atgagaggaa tgtcaacatc ctcttccata tttatgacaa caaaattagc tggaaatata 480
aggtgcttat ccttcaccaa aacatcttca atgactccat atgggcttgt gatggagcgg 540
gcaactaact ggagggtcat gcctgtgggc attat 575

<210> 3327
<211> 604
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3327

agcttctaaa ctttgtacaa gaatgaagct ctgataccac ttgttagaca agtggcctca 60
gatattctaa gaaggggggg ttgaattaag atattcccaa cttttctcct aattaaaaat 120
ctatcttact ttttacttaa gttatgaatt cccttaatga caatcttctt aaatattaat 180
tcaaatgaag caacttgaat tatgaatata aagcaataat aaataaagga gattaaggga 240
agagaaaatg caaactcagt tttatactgg ttcggccaca cccttgtgcc tacgtccagt 300
ccccaagcaa ccgcttgag agttccacta acttgtaaat tccttttaca agttctaaac 360
acacaaggac aacccttctt ttgtgttttag agattcttta caacaagaga ctacagctct 420
cctaattcct tagagaatga gaagaagaag aggaacaaat ctctcttgaa agagatggat 480
tntacagatt gagcactcaa ttaattcctt aatgaattgc aatgaattgg ccaaggaatt 540
ctttaagagg ataaaatgaa attgcttttt gagaggataa acactttgtt gttctgaaaa 600
ctct 604

<210> 3328
<211> 339

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3328

atgccacctt gtanggttaa agtctcacga ttgtcacgtg ctttttctac taattacagt 60
 cgaggctata cgagacatct tgccaaacag aagtgggtta gccataactc gcatgtgctt 120
 tttcttacat gccatatgta gcaaagtcgc tgatcctatc aagtttgatc acctggaaaa 180
 tgaggccgca attatactgt gctaggtgga gatgtttttt cccctgctt tctttgacat 240
 catgattaac ttgattgtgc atctggtcag agaaatccaa tgttggtggtc ctgtttatct 300
 acggtggatg cccccggtg agtgacacat gaagatctt 339

<210> 3329
 <211> 507
 <212> DNA
 <213> Glycine max
 <400> 3329

gtcacctgcc gcatgcaagc ttccttcgag cagcaaagcc atagagtaaa atggttgtag 60
 aagagaaaac ctttagtatc aaaaaaagaa ggggaaaatt aaaggctcgc ctagtagcaa 120
 aaatgtattc acaattgagg agccttgatg atgaatcttt tttttgtaac tttatatgaa 180
 tgatatattg attattggta accatttgca tgatgtgaat gagttgaaat tcatgttggg 240
 tagggagttt gacattaagg acatggatcc taccaagaaa attcttgga tgaagattca 300
 tcaagataga aggtccaaaa aattatggct ctcaacaaa gtttatgttg caatgtgctg 360
 gacaggtttt gcatgagtaa tgctaagtct gtgaatagtc tacttgtaaa ccacttcaag 420
 cttttttag attagtgcct aaagatagat taggaagtgg aatacatgtc aaaggttcca 480
 tatgccattg gatttggttg gttgatg 507

<210> 3330
 <211> 419
 <212> DNA
 <213> Glycine max
 <400> 3330

tgccgccaca gagttttccg actatgctct tgtgtggtgg aacaagctac aaaaggagag 60

agcaagaaat gaagagccaa tgggtgatac atggacggag atgaaaaaga tcatgaagaa 120
 gcggtatgtg cgggctagtt actcaaggga cttgaaattc aagctccaaa aactaaccce 180
 aggcaacaag ggggttgagg agtatttcaa ggaaatggat gtgctcatga ttcaagcaaa 240
 tattgaagaa gatgaggagg taactatggc tcgatttctt aatggtttga ctaatgatat 300
 ccgtgatatt gttgagctgc atgagtttgt tgaaatggat tatttgcttc acaaagcaat 360
 ccaagtggag caacaattaa aaaagaaggg agtggctaag aggagtttta ccaactttg 419

<210> 3331
 <211> 492
 <212> DNA
 <213> Glycine max

<400> 3331

agcttcggta ttcaatttcg agcatctcga catattacgg gactcaatcg aacatccgag 60
 taaaaagtta ttgtcgtttg aatttgctca gagatttggc cttcaatttc gagcgtttcg 120
 atatattacg ggactcaatc gaacatacga gtaaaaactt aatgtcgttt gaatttactc 180
 agagcttccg tattcaattt cgagcgtctg gatatattat gggctcctaat cacacatccg 240
 agtaaaaagt tattgttggt tgaagttgct caaagcttca acattcaata tcgagcggtt 300
 cgatatatta cgggactgaa tcatacatcc gagtaaaaag ttactatagt ttgaagttgc 360
 tcagagctta ggcattcaag tccgagcgtc tcgatatact acgagactca atcagacatc 420
 cgagtaaaaa gttattgtcg tttgaatttg cttagagctt tcgtcttaaa tttcgagcgt 480
 ttcgatatat ta 492

<210> 3332
 <211> 449
 <212> DNA
 <213> Glycine max

<400> 3332

agcttgacgg agtttgtcgc atcggggaac aatttatctt taaaagtggg tcccaattgg 60
 attcctaatt ttcaacttac ctatttgga gtagacatcat ggcagttagg tccagctttt 120
 ccattgtgga ttcagtcaca aaaccaactt taatatgttg gactatctaa cacggggatt 180
 ttcgattcta tccccacaca gatgtgggaa gcactttctc aggtttttgta ttttaagcctc 240

tctcgtaatc atatccatgg tgagattggg actacattaa agaatccaat atctgtccca 300
 actattgatc taagctcaaa tcacttgttt ggtaaattac cctatctttc aagtgatgtg 360
 cttcagttag atctttcaag caattcattc tctgaatcca tgaatgactt tttatgtaac 420
 gatcacgacg agccaatgca attagaatt 449

<210> 3333
 <211> 611
 <212> DNA
 <213> Glycine max

<400> 3333

ttgatgtgtt ctaaaagttg gttatggaat tcagagaatg catgtaatat tctgaatgct 60
 tatgtgatac tttatgaatt gcttatattt ttaaaactta taacttgta tttattattt 120
 tataattatt atttataggt tctagatcaa ttgaagaatc aacgtttact gatgagattg 180
 aatccgatga tgaaggata ttcactttta gtggttctaa ttttttttaa tatcattata 240
 catatctaatt ttttcaaatt ttttaaaata taggtggatc tttggtcagt aacattactc 300
 aatgtttgca agattagtag acattattgt tgatcggtaa agtaataact atacttattt 360
 actaatgtga tgtgtgattt taagatttga aacatctaaa atatgatgtt tgattttata 420
 aataccaagt tgagcgcttg agaagaaatg ttaatgacat gtttggtgaa gttggtggtt 480
 attttcatga tggacattgg tttcattttc tatttatttc taatttgggtg taatttgaac 540
 taatgaacat ttgaattatg gtgcttcata tttgacggtta tttatttacc cttaaaaaaa 600
 taatggaatc a 611

<210> 3334
 <211> 450
 <212> DNA
 <213> Glycine max

<400> 3334

ttagacgcac tataccaacc tctaggatcc agggacggcc aattatctat atataggctt 60
 gctaagggtg gagagaggaa gactagagat ttggatcaag taagggtgtg taaggataaa 120
 gaaggcaaag tcttagtgca tgaaaaagat atcaaggaaa ggtggaaggc gtatttccac 180
 aacttattta atgatggata tggatatgac tctagcagtc tagacacaag agaagaggac 240

cggaactata agtactatcg tcggattcag aaacaggaag taaaggaagc gttgaaaaca 300
 atgagtaacg gtaaggcggg ggggccagac aacataccta ttgaagtgtg gaaaactctt 360
 ggagatagag gtcttgagtg gctcaccaaa ctctttaatg aaattatgag gtcaaaacgc 420
 atgccggagg aatggaggag aagcatgtta 450

<210> 3335
 <211> 416
 <212> DNA
 <213> Glycine max

<400> 3335

agctctgaca agacaagaca cactgctgtc ttgttcaaca agataaaaca gagaaatcta 60
 ttctaaagat acatataatt ataaccata attataatac tccccttcaa gctggagcat 120
 ataaatcgta tgcaccaagc ttggaacata taaactgaat cctaggcccc cttaaagggtt 180
 tactcaaaat atctactggc tgatcattag agttaatgaa ttcagtgtgaca atctcttttag 240
 acaatagctt cttccgaata aagtgtgacgt caatctctat gtgcttggtc ctctcatgga 300
 agactggggtt tgaagcaatg tgaagagcag cctgattatc acaatataac ttcatttgca 360
 ccactttgca aaaattcaac tcttcaagaa tttgggttaac ccacataagt tcacac 416

<210> 3336
 <211> 348
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3336

cattgcatac catatctgca gggagaaatc ttactacttt atgaactgtt aaacgggtcgg 60
 tcagacagag aacaataatt gacaagattt aagtaggttt ctaccttctc tctgctctta 120
 ggccactcaa ttgggcgttt ataaccttca cgaacaggaa caatgcangt aggacgttct 180
 tcaggacagt gcctttctcg atgttcatag tgtttactac tctggagact cctaatagcc 240
 tctcagttat tgaggccagg tataaaatca ggaccagcag tgacattaca aagcttccac 300
 ttgtatccaa ttggctgctt ggaagactct tgagaatcct tttcattc 348

<210> 3337
 <211> 470

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 3337

 actaagcttg atcttcacta attgacacta atcttttctt ccacatcttg tacattacag 60
 gatatgaaca atcgtatgaa gattggtaca gttgaagtga gacacgacct ttaccacctc 120
 aactagacc aaataaccac caaagccgta tgctccacta ttattcatcc tctgtcatac 180
 cccatttttg acccgttttt atttcttttt tctcgtcttt taagccggaa atttccatca 240
 tttcagatga aatttcggca gggagggtatt ttaaaatacc tcatttttgt tttgaagacg 300
 cccctttttt tattattatt atttatttat ttaccttttt tattattatt attattnta 360
 tttttagtta ttattttctt ttcttttctt ttcttggtta taagtgtttt ttattatttc 420
 cgtntttttt attattatct ttattagtat cttctnnttc gtttttttcg 470

<210> 3338
 <211> 460
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 3338

 atatttcttg acaacatcca tcatgcctgc actattcatg attcttcttt tgtatgaata 60
 ggccaaaatg gtgatagttc aacaactttt cctataataa tcagcggttg tgacacacgc 120
 tgagcagatg taattttctc gtgaagggtcc tttagttcag caaacacctg catcatagca 180
 aaataatcag ctattggacc tagcatccgg aaaagttgaa ttaagaacca gctatatata 240
 gattcacaca caattgtatt tatttatcag tttttaatat caaccatgca gaagtacaaa 300
 ataaaatgtc tcaaattcac aactacctcc taaaacaaaa cattattaag atcactatat 360
 cctattagcc ttgactgtag tgtcagggtac actttcttca caccctcac attcaatctt 420
 taattgttga atatctttta ctacagntaa tttgtcaaga 460

<210> 3339
 <211> 385
 <212> DNA
 <213> Glycine max

 <400> 3339

agcttgtaat tcctgaccc tatataacat atgttgtaaa ggttgggact ggaacgagtc 60
 accaatggct ttcttgagga gagagacatg aaagatcgga tgaattttac tgtgagatgg 120
 aagatccaac ttataagcaa caacacccac ctagtttaac acttggaag gaccataaaa 180
 ccgaggggag agtttttcat taatcctttt agccaacgat cttcttctgt aaggttgcac 240
 cttcaagaac acccaatcac tgactgcata ttctatgtcc cgacggcggt tgttgacatt 300
 cgctcacatg atatcttgag acttcaacaa attttctctt agagtagcca ataattcatt 360
 ccgagcaatt gttagtttat tgact 385

<210> 3340
 <211> 402
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3340

tggacctgng tgttgccag attcatcata tcttctgtaa tactcatcac ctctatcata 60
 tctaataatt ttcacattta tgtctaattg cctttttatt tcattgtagt aaatttctaa 120
 ggcatacatt gcctaagaaa tctcgggcag taagtagaca taaccgtaat gtgaataatc 180
 atcaataatg gtgataaaat atcattcctt tccgaaagaa ctaacatcaa aaggtccaca 240
 aatatcagta tgcacaattt caagaagctg agtgcttctt gtagctcttt tctttgtatg 300
 ttatgcttgt tttcccttaa tacaacccac acaaatattt agatccataa gatccacata 360
 aggaagagtt tcattcttta ttaatctttc catcctttct ct 402

<210> 3341
 <211> 317
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3341

agcttgtgcc tcttcacgtg tganatatga atgtagcata tagatctaaa gacccttatg 60
 tgctttgctg atggcttctt gccgttccaa gctgtaattg gagtcttgtt ttttacagct 120
 tagctggaca tttgttgagt atgtaaacag cagtgtagac tgcttcacct caaatgtgc 180
 tagggccgcc cctcctcctt gagcatcgat ctcaccatct ccataactat gcgattcttt 240

ctctcgata ctccatcttg ttgaagagaa tatgcgactg taagttgccg ctcaatgcct 300
ttcatcctca taaaatc 317

<210> 3342
<211> 390
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3342

tctatataat gttcgttccct aattttctcta caattgcac acctctcaat gagctggtga 60
agaagaatgt ggcatttacc tgnngtgaaa aacaagagca agcctttgct ttgctcatag 120
aaaagcttac taaggcacct gttctagctc ttctgactt ttctaaaact tttgagctag 180
aatgtgatgc ctcttgagtg ggagttggag ctgtattgtt acaagggtggg caccctattg 240
cttanttttag tgaaaaactt catagtgcc cctcaacta cccacctat gataaagagc 300
tntatgcctt aataagagcc ctccaaactt gggaacatta ccttngttcc aaggaaattg 360
tcattcatag tgatcatcaa tcaacttaagt 390

<210> 3343
<211> 217
<212> DNA
<213> Glycine max

<400> 3343

aagttatgac catttgaatt tcctcagagc tacctttggt caatttcgag cgttttgata 60
tattatgcgc ctgaaacgga cctccgagtg aaaagctact aacatttgaa tttctcgaga 120
gcttcccatg gtcaattttg agcgtgtcga tatactatgc gcctgaatct cacctccgag 180
tgaaaaggta tgaccatttt aattttcttaa gagcttc 217

<210> 3344
<211> 352
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3344

gcttctcgat atattatgca catgaatcag acttctgttt gaaaagttat gaccatttga 60

atttttggag agcttccgtt gtgcaatttc gagcgtcttg atatattatg cccctgaatt 120
 ggacttccgt gtgataagtt atgaccattt gaatttctag aaagcttccg ttgttaattt 180
 cgagcgtctc gatatattat gcgcttgaat cggacttncg tgtcataagg tatgaccatt 240
 tgaatttctc cagagctttc gccggtgaat ttctggcttc tcgatattat atgcacctga 300
 atcagatttt cgttttgaaa ggtatgacca ttttaatttc tcgagagcat tc 352

<210> 3345
 <211> 372
 <212> DNA
 <213> Glycine max

<400> 3345

agctctgatg caacatatgg agaggttaat gaatttaca gatgatgcgc tccatgagag 60
 gttggatcaa atggagaata gagatcataa tgaagaagaa aggaggagaa gagggaaatga 120
 tcgtgttctc agacaaaacc gaattgatgg tattaaactc aacattcctc catttaaagg 180
 aaagaatgat cccgacgcct acttggagtg ggagatgaaa atagagcatg ttttctcatg 240
 ccacaactat gaggaggacc acaaggtgaa gcttgccgc acggagtttt ccactatgct 300
 cttgtgtggc ggaacaagct acaaaaggag agagccagaa atgaagagcc catggttgat 360
 acatggaccg ag 372

<210> 3346
 <211> 448
 <212> DNA
 <213> Glycine max

<400> 3346

tatatacaga aatgcttga ttgtctaca gctaaatcaa actatacact gccagcagga 60
 ctactccaac ctttacctat tcctcaaca gtttggaag atgtagccat ggatttcac 120
 acaggtttac caaatcctt tggattatct gtcataatgg tagtcattga tagactcacc 180
 aaatatgctc atttcattcc attaaaagct gattataaca gtaagggtgg agcagaggca 240
 tttatgagtc acatagtcaa attacatggg ataccaagat ctatagtgtc tgatcgagat 300
 agggttttta ccagtacttt ttggcaacat ttattcaagt tacaaggtag tacattggcc 360
 atgtcatcag cttatcatcc acagtcagat ggacaatctg aggtgctgaa taaatgtttg 420

gagatgtatc ttagatgctt cacgtatg

448

<210> 3347
<211> 445
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3347

tctactcttc ttctccttag tctcctcttc agccatccca gttatgtgtt agacaagtgg 60
cctcagatat cttaagaacg aggggggttg attaagatat tcgatacttt ttcttctaata 120
taaaaatcta tcttactttt tacttaagtt atgaattccc ttaatgacaa tcttcttaaa 180
tattaattca aatgaagcaa cttgaatatg aatatacagc aataataaat aaaggagatt 240
aagggaagag aaaatgcaaa ctcaagtttta tactgggtcg gccacaccct tgtgcctacg 300
tccagtcctc aagcaaccg cttgagagtt ccactaactt gtaaattcct ttacaagtt 360
ctaaacacac aaggacaacc cttcctttgt gtttagagat tcntacaac aagagactca 420
cagtctctta atcccttaga gaatg 445

<210> 3348
<211> 364
<212> DNA
<213> Glycine max

<400> 3348

gcttaacatc ataccacttc cacgggtgctg gaactacttc acatttactt gatggggcct 60
atgcatgttg aaagccttgg aggaaagagg tatgcctatg ttgttgtgga tgatttctcc 120
agatttacct gtgtcaactt tatcagagag aaatcagaca cctttgaagt attcaaagag 180
ttgagtctaa gacttcaaag agaaaaagac tgtgtcatca agagaattag gagtgaccat 240
ggcagagagt ttgaaaacag caagtttact gaattctgca catctgaagg catcactcat 300
gagttctctg cagccattac accacaacaa aatggcatag ttgaaaggaa aaacaggact 360
ttgc 364

<210> 3349
<211> 397
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3349

caaagaaata gtgtggcttt atggattacc gaggagcatt gtcagtata gggatgcaaa 60
attccttagt cacttttga ggaccttggt gggtaagatt ggtactaaat tgttgttttc 120
tactactttt caccacaaa ctgatgggtca aactgaggta gtcaatagga ctttangaac 180
actgcttang actgttttaa agaanaatct tanatcttgg gaagcctgtt tgcctcatgt 240
tgagtttgct tataatcgag ctgtccatag cacaactaat tgttcacat ttgagatagt 300
atatggattt aatcctttga ctctcttga tttgttgct atgcctaaca ttgctatgtt 360
taagcataat gatgcacagg ctaaagctga gtatgtg 397

<210> 3350

<211> 346

<212> DNA

<213> Glycine max

<400> 3350

cgtaatcatt caatgcattc ataatacagc cacattcttt catagctgct ctaaaaaaat 60
gaaacagtca tcatctgaga gtaggtaaga tataataggt acaccctac agattttgat 120
gccatgagta tgtcttcacc cttctaactt cttaataaga gcttaaatcc cttcagcata 180
aaggatgaac agaaaaagag aaaggggata tccttttctg agacccacc atcgatgat 240
aagaccacc aagctttcat tgacagtaac atagtactag acagattgga tgccaatcaa 300
aatccactta acccaagttg cactaaatcc cattttggtc ttgaca 346

<210> 3351

<211> 428

<212> DNA

<213> Glycine max

<400> 3351

agtgattcca attgaatccc tacatcttct atgttccaga aacaattaag ctaagatgcc 60
aaagagaaaa tcgttgctta taaaaataga caaatcctct atgcattaga agtctcaaag 120
tgaccaatga gcaaagagct caagtggcaa cagcatcaga cttcattttg attcctgtta 180
caaactcctg accctttccg ttgctcaat tcctaggtct acacagctc ccttgaacc 240

tggaaaaatc tattaacta atattgtata tttttatgac ttcagatgga agttttgaat 300
 atgctatagg attttgtag tgaaaggagg tcttaaaacc tgcaaacat aagccagcat 360
 ccctacaggc aagagcagtc atcatcatgt gtgaaccatc cagtgaatgt acgaagtttg 420
 gaggaat 428

<210> 3352
 <211> 336
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3352

gaatcggtac acatatactg ttatcgatta ccagagcaga ttttcagaan atattctcat 60
 ttgtcacatc tttttatgtg gttcttgaat ggctatcaaa ggcctatata tatgtgactt 120
 gagacacgaa ttgctaaga gtttttcaga acaaaaaggt cttatcctct tataaagcaa 180
 aatcgtttta tcctcttaca aattccgtgg ccaaattact tgtgattcaa taaggaatta 240
 ttgagtgct caaattgttc aatctatctc tttcaagaga gatttcttct tttcttcttc 300
 ttcattctga anagggatta agagaccgag ggtctc 336

<210> 3353
 <211> 399
 <212> DNA
 <213> Glycine max

<400> 3353

ccctctgctg cggctaagct atcttgaaag aagtgcattt tcttgctttt gtccgtagaa 60
 tatgccccca ttcttcggca atacatctga agatgaccat ttggacacgt cgcctctttg 120
 tatttatcaa aatctggtac tttaaacttg ggaggaatga tgatgtcagg taccagacac 180
 agatcccgt aattcgagaa cgggtagttg ctgaggcctt ctaccactct tagcctctct 240
 tcaagtaaat caatctttcc cttgtctatt gcaaagggaa caagttcctt aacgggtgat 300
 gatggagaca ggacgtggcg gactatgttt ggttggggca actcatgggg ggccgaatcc 360
 ttgatgagaa gtagagggcc taaatgagca tcttcttca 399

<210> 3354

<211> 398
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3354

agcttcttct tgtttctctc ttcatttgaa acctttattc ttcttgagca cttcattgag 60
 aggcgctgcc aatgtgctaa aatccttcac aagtcgtcta taaaaacttg ctaagccatg 120
 aaaactcttc acctcggtca cagacttagg tgtecgccat tcttgaatag ccccaacctt 180
 ctctcatcc acttgactc cttttgaact cacaacaaaa ccaagaaaca caatatgggt 240
 agtacaaaag atgcattttt caagattggc atacaattgt tcttctctaa gcacagccca 300
 gacagattct acatgatcaa tatgcaaadc aagtgaagtg ctatagataa gaatactctg 360
 aaagtacacc acaacgaant ttcctatgaa ctctctta 398

<210> 3355
 <211> 182
 <212> DNA
 <213> Glycine max

<400> 3355

ccatcttggg atgttcccag cctttgatga cagctttaca ggttctgcta tccagtgatt 60
 tgaggaaggc caccattctt gctttccagt attcatagct ggttccatca agaagtgggt 120
 gtctgcgcac tggacctcct tctttctcca tgttcataag aatttatctc cctacatctc 180
 ac 182

<210> 3356
 <211> 429
 <212> DNA
 <213> Glycine max

<400> 3356

agcttaagct ccttcaactg cacaaggctt ttaatatttg aagagtatcc ttgtggaacc 60
 ttcacccgac gaagacactg acaaaaaactt atcttctcct ttttggacaa agtatggcaa 120
 gctgggggca agtaaattat cttcccatca caccttggat gcaactgtga tcgtatgccc 180
 atatcaccta gatcttgacc ggtattctag ccaccttcg tcttgcttg aatgttaagg 240
 agcgtcccaa tgacactgtc acaaacattt ttctccacat gcataacatc catacaatgt 300

ctaacgtcaa gatcagacca gcacggaaga tcaaagaaaa cggacctctt cttcaatatg 360
 caactctgac ttttatcctt cttttggggtc ttctcaaata cattatctag gtgttgaacc 420
 cgctgatat 429

<210> 3357
 <211> 313
 <212> DNA
 <213> Glycine max
 <400> 3357

agctgtgagc aacttcaaac aacaataact ttctactcgg atgtctgttt gagaccgta 60
 agatatccaa acgctcgaaa ttgaataccg aagctctgag caaatctaaa cgagaataag 120
 tttttactcc ggaagtcaga tgtgaggacc cgtaatatat cgagtcgctc aaaatggaat 180
 accgaagctg tgtgctaatt ccaaccacac taccttttta ctgggatgaa tgattcagtc 240
 tccgaatata tacaaacgct cgaaatcgaa tacccaatct ctgagcaaat ttacacgaca 300
 ataacttttt act 313

<210> 3358
 <211> 441
 <212> DNA
 <213> Glycine max
 <400> 3358

agctttctgat aaaaaccgag cagttctaata aagatttgct atacgaatac ccttacgctt 60
 tgcagatata taaggcgaca ttttacgatt ccattttcta gtaccgcggc caaatgaac 120
 tcttgcttcc atcatctctt ccaagattat gtcccatat cttcttgta tttatattta 180
 tccccacact tttctttcat ttcaaaatcg aaattctata aatcttttga aatgaacaaa 240
 acagaccgg tatactgaaa tagaaataag tgttccaaag gaaccttctc ttctaccgaa 300
 gattggcctt cgataaacga tcgggccatc ttttctattt cataactaat atgaccattc 360
 tctttattat ctttctttta ttacacaaca tcaaatgacc gaagatgaat ccgctcttaa 420
 gaatcattat tttacgaatt a 441

<210> 3359
 <211> 410

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3359

agctntgaat gcactattca ttggagttga caatatcatc ttcagactga tcaacacttg 60
 cacagtggcc aaagatgcat gggagattct gaaaatcact catgaaggaa ccttccaagt 120
 gaagatttcc agattgcaac tcttggctac aaaattcgaa aatctgaaga tgaaggagga 180
 agagtgtatt catgacttcc acatgaacat tcttgaaatt gccaatgcct gcactgcctt 240
 gggagagagg ataacagatg ataagctggt gagaaagatc ctcagatcct tgcctaagag 300
 atttgacatg acagtcactg ccatagagga ggccccagac atttgacat gagagtacat 360
 gaactcattg gttctcttca cacctctgag ctacgactct cggatagggc 410

<210> 3360
 <211> 397
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3360

agcttcatga tgatgattct agtatgaatc aagttgttnt gatgatgaca aacagtccaa 60
 aagaatgatt tcaagattga gtcaacaagt tcaagatcaa gattgatttc acgattccag 120
 agaagaaatc aagacgactt ccccagggaa gtactgaaaa ggacttttcc aaaaccaaac 180
 atagcgcagt tttgttttac aaaagagttt tctcaaaatt ttctaagtta ccagagtatt 240
 tactctctgg taatcgatta ctagtttctt gtcacgatt accagtgata aagtttcatt 300
 tcacaagctc ttaactgaat ttgcaacatt ccaaagatc tttaaagtgt gtaatcgatt 360
 acaatatatt ggtcatcgat taccagtgtg tctgaac 397

<210> 3361
 <211> 415
 <212> DNA
 <213> Glycine max
 <400> 3361

agcttaagac ttcaagatct gaactcctta tttctttgag catttcgtgc aagcttcatt 60
 caaggtaagg ggggtctttc cacttcttga accctaacct tgtttttgga agctaggctt 120

cattgcatgt tgtattgatg tttaaaatta tgtatatgtt gccatgacta aaactgtgta 180
 atatgttttt tttttcttga atttttaagg ctaaaatgag ttttttgggt attaaaactt 240
 acggttagcc ttaagtttcc cttatatcaa agttttctag caaaagtat gaataaaaca 300
 agtttaagga ctttctgtat gaaattctga tactgcggac agatgtccta ccggatgtca 360
 cgacatcacg ctctacaaca tgcagattgt acttgactgt atgaacacat taaac 415

<210> 3362
 <211> 213
 <212> DNA
 <213> Glycine max

<400> 3362

cagcttgtgc ctcttacgt ctggaatatg aatgtatcat atacatccaa acacccttaa 60
 gtgctttgct gatggcttct tcccgtcca agctctaatt ggagtcttgt cttttacaga 120
 cttagctgga cgtctgttga gtatgtaaac agcagtggcg actgcttcg ccacaaatgt 180
 gttatgtagt cctttttcct tgagcatcga tct 213

<210> 3363
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3363

ggtttctgga ccgagaatca tctntgcaaa gagccatttt ggagcaattg ggctatctga 60
 ggattggtgc ctttctgctg ctgattacct aaactgtgcc ctgctccatt ttccattctg 120
 ttacctaggg cttccaattg gaatcaatcc gagaagaaag gtggtgtggg agcctataat 180
 cagaaaattt gaggctagcc taaataaatg gaaccagaga aacatttcga tggctagtag 240
 aatcactcta attaatgttg tctaacagc attgcctttg ttctatctgt ctttcttcag 300
 ggcccctata gcagtgatta atagattaac tgccatccaa aggcactntc tttggggtgt 360
 gtaattggaa gggaagaaaa ttgcttgggt agcttggaga caggtgtgtg cctctagaga 420
 aatggg 426

<210> 3364

<211> 396
 <212> DNA
 <213> Glycine max

<400> 3364

gcatgcaagc tctggcgaga aatatacctt tgagcgggtg tttgcaaggt tggtttgact 60
 aatgtttgtga gcatcaaagt gccaggcctc ggggaaggac tcatccgctt gtgttcccat 120
 ccaaaccgca agcatgattt cccattatt atgaattttt tggcccttct tgtcctccaa 180
 tatgtaccat tgaggagcca aggggctgtc tgggggtacc cgaagaggaa cctcagttag 240
 atcaaacata actctcccca caaatcatc cttgacaatg tccttatect tgacggcgac 300
 tctaagcaaa tttgattgca gcctgtcctt ggagaaggcg aagatttgat tccagacagg 360
 gttctggctc ttgtccaagt gcttggtgag gccctt 396

<210> 3365
 <211> 397
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3365

tcaacctcag cagttaaata aaccacagca gagcaattat gacctttcca gcaacagata 60
 caaccttgga tggaggaata accctaacct cagatgggtc agccctcagc aacaacaaca 120
 gcagcctgct cttttcttcc aaaatgttgc tggcccaagc agaccataca ttctccacc 180
 aatccaacaa caacaacaac ccagaaaca gccaatagtt gagggccctc cacaaccttc 240
 ccttgaagaa cttgtgaggc aatgactat gcagaacatg cagtttcagc aagagaccag 300
 agcctccatt cagagcttaa ccaatcagat gggacaattg gctactcaat ngaatcaaca 360
 acagtcccag aattctgaca agctgccttc tcaagct 397

<210> 3366
 <211> 311
 <212> DNA
 <213> Glycine max

<400> 3366

agcttctaaa ctttatacaa caatgttgct ctgataccac ttgttagaca agtggcctca 60
 gatattctaa gaaggggggt tgaattaaga taatgcacac tattctcccc attaatactc 120

tatttccatt tcaatgccag ctgcaagttc ccttacaac gaactcttaa ataatgattt 180
 caatacaaca acctgaatat aaatctcaag caataatata ctcaatagtt taagggaaga 240
 gaaagtgccca ctcatattat attggtttgg cacacccttg tgcctacgtt aatcccaagc 300
 aacccttga g 311

<210> 3367
 <211> 415
 <212> DNA
 <213> Glycine max

<400> 3367

catgcaagct tctgttttca atttcgagcg tctcgatatt ttacggcgct ctatccgaca 60
 tccgagtga aagttattgt cgtttgattc ttctaagagc ttcccttttc aattacgagc 120
 gtctcgatat attacgggac acaatcggac acccgagtta aaagttattg tcgtttgaat 180
 ttgctcacag cttctatttt caattaccag cgtctcgata tattacggga ctcaatcgga 240
 catccgagta aaaagctatt gtcctttgaa ttctctcaga cttctgttt tcaattacga 300
 gcgtcctgat atattacggg actcaatcgg acaactcgagt cataagttat tgtcccttga 360
 atctgctcac agcttctatt ttcaattacg agcgtctcga tatattaccg gactc 415

<210> 3368
 <211> 418
 <212> DNA
 <213> Glycine max

<400> 3368

gcttcatgca catgaagtca agtttcttgc ttctaaaagg gattgttagt ttggaagcgg 60
 tgttctcttc taccaccgtc tcatcaaggg tttgatcttt tcagacgctg ttgggttcaa 120
 aggttgccga gaaattgaag ggcttatgt tgagtatctt gcagaacagt ttgggaagcc 180
 tgttttgctt tcaggacctt tcatacctga gccaccaac actgtttttg agggaaaatg 240
 gggttcatgg cttgaaaggt tcaagcttgg ttctgtgggt ttctgtgtac ttgggactga 300
 atggaagtta ccacatgac aattccaagg actattgttg ggtcttgaac ttacagggct 360
 tccttttttg gctgttctaa aagttccaat tgggtttgag acaattgaag ctgctcta 418

1444

<210> 3369
 <211> 441
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3369

cttgctatcc catggaagct cctaatatct cccacactnt ntgtggtggg ccattcttgg 60
 attgccttga ttttatcagg gtccacttgg accccatttc taccaactac aaaacctaag 120
 aagactatat tatctacaca aaaggtagac ttctctatat ttgcatagag ggtttttttc 180
 ctaaggactg aaagaacttg cctgatatgt cctaagtgat catctaggct cctattgtac 240
 actaaaatat catcaaaata aacaactaca aatcgaccta tgaaatccct taagacatga 300
 tgcataagcc tcataaaggt gcttggagca ttagtgagcc caaaaggcat cactagccat 360
 tcatacaaac caaacttggg ctgaaagcg gttttccact catcaccta tttcatcctg 420
 aattggtgat aaccactttt a 441

<210> 3370
 <211> 212
 <212> DNA
 <213> Glycine max

<400> 3370

cgtaatatat cgagacgctc aaaattgaat gttgaagctc tgagcccata tacacgacaa 60
 tgacctttta ctcggaatgctc tgattgagtc ccgtaacata tcgagacact cgaaattgaa 120
 tgttgaacct ctgagcatat tcaaacgaca ataacttttt actcagatgt ctgattgagt 180
 cccgtaactt atctacacac ttgaaattga at 212

<210> 3371
 <211> 450
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3371

ctagaacgtg atgaacttca gtcattattc taatagcacc attatgcatt atatatagnt 60
 aaattattct attaattctt cctctacttt attaatctta tttccaactt attttttatg 120
 gaaatttaat gtaaaatata ttctattttt tctgttatat cactcaatat ttcttaatta 180

ttaaaaaaag aacgagttat atttgattat tattctatta aattcaaaca attntatntt 240
 caaaattttc ctctatntttt agaagttgta ttcttaatca attatntcat tcttctntta 300
 acattctnta ataactatta taatattatt taataacgta ctatgaaaaa taatcaatca 360
 atttatttca tttctntnta gtattntnta attaacaata tatctntgta ggtaatatat 420
 gtatgctata tcagntnttc agagcaatga 450

<210> 3372
 <211> 306
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3372

agctagnгаа tgtgttcggg tttggtgttc atgtatnttt tctntcctac acctgatcta 60
 gcgagagtat atantcttat ccatatgcta atctgatttt ctatgatcaa ttgcagtgtt 120
 agtgtgtttg gcgtctcaac ataactaatg cagtgttcct atgattcaca aggaaacagc 180
 gccccacta ttctactgct aatgcgagaa tgattatact cacacgatgg cctacacgta 240
 cgtaccaata atattatata ctctgtcatt tgagccattg actatgattg cgtcactgac 300
 tatcat 306

<210> 3373
 <211> 436
 <212> DNA
 <213> Glycine max

<400> 3373

acgacaataa ctgtttactc ggatgtctga ttgagtcccg attatatcat gtatctcgaa 60
 attgaatgtt gaacctatga gccaatcaa acgacaataa ctatttaatc ggatgtctga 120
 ttgagtcccg taatatatcg agacgctcga aattgaatgt tgaagctnta ggcaaattca 180
 aacgacgata actnttctact cggatgtcta attgagtccc gtaatatatc gagacgctcg 240
 aaattgaatg ttgaacctat gatccaattc aaacgacaat aactatntac tcggatgtct 300
 gattgagtcc cataatatat cgagacgctc gaaattgagt gtgatcctct gagccgattc 360
 aaacgacagt aatctntntac tcggatgtcc gattcagtgg tgtaatatat cgggacgctc 420

gaaattgaat gttgaa

436

<210> 3374
<211> 436
<212> DNA
<213> Glycine max
<400> 3374

agcttcaaca ttcaacttcg agcgtctcgt tatattatag gactcaattt gacatccgag 60
taaatttggt ttgtcgtttg aatttgctca gagcttcaac attcaatttc gagcgtctcc 120
atatattacg ggactcaatc agacatccga gtaaaacgct attgatgttt gaatttgctc 180
aaagcttcaa cattcaattt cgagcgtcta gatataattac aggactcaat caaacatccg 240
agtaaaatgt tactgtcgtt taaatttgct tagctctcca gctttaaatt tcgagcgtct 300
cgatatatga cgggactata tcagacatcc gagtaaaaag ttattgtcat ttgaatttgc 360
ttagagattc aacattcatc ttcgagtgtc tcgttatatt acgggactca attatacatt 420
cgagtaaaaa gttatt 436

<210> 3375
<211> 437
<212> DNA
<213> Glycine max
<400> 3375

agcttatcgt aaccgattac acatttattt ttgagacaat gattgatttt ttaggagtct 60
ctgctttaat ccattaccag tagatataat cgattacttc tctcttaaaa agtgtttcag 120
aagtgatcaa gaacacttta atcaattaca tcaaaaatct aatcgattac attgttcttg 180
aaagttttcc aatttttggg aagaacactt taatcaatca aaatggtaat aatcaattac 240
ttctttgaaa taattgatta cattgtatat ttaattgatt acaggcagtt attacgagct 300
ggtataagct agaataacat tattagaaaa tatgtttttt acatcggtta tttatgactt 360
tcaacatcgg tttttaaatc gatgttgaaa gtaccgacgt tgatagtatt attggtaaca 420
tcggtttttt aaaaact 437

<210> 3376
<211> 402
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3376

tagagctaatt tcaaacgaca ataactntct actcggatgt ctgattgagt cccgttatat 60
atcgaggcgc tcgagattga atggtgaagc tctgagcaaa ttcagacgac aatatctttt 120
tacacggatg tctgattgag tcccgttaata tatcgagacg ctcgatattg aatgctgaac 180
ctctgagcta attcaaacga caataactct ttactcggaa gtctgattga gtcccgtaat 240
atatcgagac actcgaaatg gaatgttgaa gctctgagga tattcaaacg acaataactc 300
tttactcggg tgtgtgattg agtctgtca tatatcgaga cgctcgaaat tgaatgttga 360
agctctcagc atattcaaac gacaataact ttatactcga at 402

<210> 3377

<211> 328

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3377

agcttcaaca ttgaatntag agcgtctcga tatattatcc tgactcaatc agacatacaa 60
gtaaaaagtt attatcgttt gaaaatcctc agagcttcgg tattcaattt cgagcgtctc 120
gatatattac gggactcaat cagacatccg agtaaaaagt tattgtcgtt tgaattagct 180
ctgagggttca taattcaatt tcgagcgtct caatatatta cgggactcaa tcagacattc 240
gagcaaaaag ttattgtcgt ttgaattagc tcagagcttc agaattcaat ttcgagcgtc 300
tcaatatatt acaggactca atcagaca 328

<210> 3378

<211> 425

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3378

agctngccaa attcttatta tttagcagtc ccaatataat tnttagattg ggagaaataa 60
taaactgtta ctatatcatt atgagaaata caaccaatct gtgttctaaa caaataatta 120
aagaatacct gaatcaacca tacaacattc tcaactgtaca aatcattatt cactatccaa 180

ctggctagtt ggtccactc actttgcttc ctaccatata ttgatattct atattcagcc 240
atctgtgaat aaataaggca cagaaataag ttaacatcta gatggggata agcatatata 300
aacaacagtc aagaaatggt aaattatagt caacaagtca aaacacattg gccaacatag 360
gtcctcatatc tcatgaacat attattgcac tattgngtag tggtaaataa agacgcattg 420
taatt 425

<210> 3379
<211> 378
<212> DNA
<213> Glycine max

<400> 3379

tagttgtacc atgttttagtt tacttgagat cagatggcag aggtgtgaat attggtttgg 60
catcaacat cttagccttt tcaagcaaata cataaatata tttagcttga gataacaata 120
gagaaccatt actcaaagt tttacttcaa taccagaaa ataatccaag tttcctagct 180
gtttaagagc aaaaacaaca tgtagtttgg taattaagtt tcaaataaga actggagatg 240
accctgtgat gataatatca tcaatacata tcaacagata aagacactta gaatcagtgt 300
tgaacactag aagggatgga tcacactttc tttgaacaaa gccaaaagtc agtagtgttt 360
tggttaatct ttcatact 378

<210> 3380
<211> 357
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3380

tccaagagtt gaggcgattg acaacagctc caatgttgat tntgtccgac cctaagagac 60
catttgaagt gtattgcat ggcagcgggc aaggcttang gtgcatattg atgcangagg 120
gaagggtant tgcttatgct tcacgcccac tatgtcctca tgaagttaac tatccgaccc 180
atgacttgga actagcagct gtggtctttg ccttaaagat ttggaggcac tatttatatg 240
gcactcgttt tgaagttttc agcgatcaca agggcctcaa atacttggtc gatcagaagg 300
aactcaatat gaggcaatga agatggatgg agttcctcaa ggattatgac tttggtc 357

<210> 3381
 <211> 455
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3381

gcaagcttct aaactntata caagaatgaa gctctggatt catcttgta gacaagtggc 60
 ctcagatata ttaagaagg gggggttgaa ttaagatata ccaaattact ttccacaatt 120
 aaaaatttat ttcactttct tttcaagtta tagattccct taacaatgaa cttcttaaat 180
 attaattgaa ataaaaacaat ttgaatatga atgtaaagca ataataaaca aaggagggtta 240
 agggaagaga aagtgc aaac tcagatttat attgggtcgg ccacaccctt gtgcctacgt 300
 ccagtcccca agcaatccgc ttgagagttc tactatcttg taaattcctt ttacaagttc 360
 taaacacaca aggacaatcc ttcctttgtg tttagaattc ctttacaaca agagaccac 420
 agtctcttaa tcccttagag aatgagtaga agaag 455

<210> 3382
 <211> 460
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3382

ggaatcttct accccatttc tgacagccaa tgggtgagtc cagtttaagt gggtcctaag 60
 aagacatgcc tcacagtgat taagaatgag aagaatgagc ttatccccac aagagtgcag 120
 aacagctggc gagtctgcat tgggttatagg aggctgaacc aggtgaccag aaaatatcat 180
 tttccctgc cattcattga tcaaagctt gagcgcttgg caagtaagtc tcattactat 240
 tttcttgatg gtttttctgg ttatttacia attcatattg ctctgagga tcaaganaag 300
 accatattca cctgttcctt tagcactttt tctataaga ggatgccctt tggcctatgc 360
 aacgcccctg ataccttcta gtgatgtatg cttagcattt tcagtggatt tttagagann 420
 nncatatagg tgtttatgga tgattttact atntatggat 460

<210> 3383
 <211> 451
 <212> DNA

<213> Glycine max

<400> 3383

agcttcctta agaagattcc taaagaagct agagcttatac tacacatact ctctctaata 60
gctaagctca cctccttgag atgagaagct agagcttagc tacacacccc ctataatagc 120
taagctcacc cccatgacaa aaaacatgaa aataaaaaaa aagtccttat tacaaagaca 180
actcaaaatg ccccgaata caaggctaaa accctatact actagaatgg ccaaaataca 240
aggcctagac gaaggaaaaa cctattctaa tatttacaaa gataagcggg ctcatactta 300
gcccattggc tcaaaatcta ccctaaggct catgagaacc ctagggcctt tccttgatc 360
tctagcctaa tctacttga gtcttctaac caatgccctt gcggggtagg attgcatcac 420
atacgatatg tcattaagta atgcatttca g 451

<210> 3384

<211> 432

<212> DNA

<213> Glycine max

<400> 3384

agcttcttag ttccagatga tgcagatggg ttgttttcta cctcatgctc tcctctaata 60
actatggcat catttctggc actaaactgc tgggagttgg aggccatctt ctcaattaaa 120
tttctggctt cagcaggagt catgtctcca agggctccac cactggcagc atctatcata 180
cttctctcca tattactgag tccttcataa aagtattgga gaagaagctg ttctgaaatc 240
tgatgggtggg ggcaactggc acatagtctt ttaaactctt ccagttactc atacaggctc 300
tctccactga gttgtctaata acctgagata tccttctctga tggctgtggc cctggaagca 360
gggaaatttt ttcttaagaa tactctctaa aggtcatccc agctcgtgat ggaccttgga 420
gcaaggtaat ac 432

<210> 3385

<211> 362

<212> DNA

<213> Glycine max

<400> 3385

aaattatctt ttccattatt caatacaaat catttacagc ctaagatatg aagatgtgag 60

atgttcgggtt atatgccatt gaacaattca tatggcagtt tctttacaat gggctcttatt 120
aaagccctat ataatatgta gcatgcagtg ctaacgactt cagcccaata gtattttgga 180
agaggagtat catataataa agtttttagca atctcttcca aagatctatt tttcctttca 240
acaacaccat tttgttgacg ggttctaggt gcagaaaaga tatgctcaat cccatgctta 300
tcacaaaata ttttagattc tttattctca aactcacgcg catgatcact cctaatagat 360
at 362

<210> 3386
<211> 431
<212> DNA
<213> Glycine max

<400> 3386

agcttatgct gcaaacattt attatagacc ccttcataag caaaaccaac atcagcagaa 60
taattatgat ctttcaagca acagatacaa tccaggttgg aggaatcatc caaatttgag 120
atggacaagt cctccacaac aacaacagcc tgctccctacc ttccagaatg ttgttggtcc 180
aagcaagcca tatgttcttc ctccaatgca ataacagtag cagaagtcac acaaagaca 240
acaagcaact gaggtccttc ctcaaccttc cttagaagag ttagtgaggc aaataacat 300
ccaaaatatg caatttcaat aagagacaag agcctccatt cagagtctga caaattagat 360
ggagcatatg gctactcagt taaaccaagc tcagttccaa aattctgaca aattgccttc 420
acagactgtg c 431

<210> 3387
<211> 415
<212> DNA
<213> Glycine max

<400> 3387

agcttgacta ctttgggtact gatcatattc tcggattaaa tgatgatcaa tgtcaatgtg 60
cttggattgt tcatgatgag tacagcttga agcatgactt atagcaaatt tattattaca 120
aaatatcatc acagagggca catcaacttt aaagtaaaga agtaacttgc ttaaccaaac 180
aatttcacta gtaacagaag acaaggcaag atattcagat tcagtggatg attttgaaac 240
aatgggttgt ttcttagaac gccaaagaaag aaggttggtt cccagaaaga cacaaaagcc 300

agaagtggat cttctggat caacacagct ggcccaatca gcattagcaa aggcagtgag 360
gttgagagag ttctgagcag atttgatata ttgcagaaga tgatgaacaa catgt 415

<210> 3388
<211> 439
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3388

tgctaacca tggaagctcc taatatctcc cacactttat gatgtgtgcc attcttggat 60
ggccttgatt ttctcaggt ccacttggac cccatttcta ccaactacaa aacctaagat 120
aactatatta tctacacaaa aagtacactt ctctattttt gcatagaggg tgtttttcct 180
aaagactgaa agaacttgct tgagatgtcc taagtgatca tctaggctcc tactatacac 240
taaaatatca tcaaaataaa caactacaaa tctacctatg aaatccctta agacatgatg 300
cataagcctc ataaagggtgc ttggtgcatt agtgagccca aaaggcatca ctagccattc 360
atacaaacca aacttggctt tgaaagcagt tntccactca tcaccctttn tcacctgat 420
ttggtgataa ccactttta 439

<210> 3389
<211> 433
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3389

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ggtacatttt tgtaatttct caattcagtt ttcaattctg gacgatttcc tgttaattta 120
tcctttcact ttgggttata gatgacttgc tccacggttg aactcactgt tcaatagggtg 180
gagaagttga gggaaatgag tccactttat gaaattgtca aggaagggtat caacatcaag 240
gacattcaat gggcacagca ctgattatta tcaagctctc agattgcaat gcaagtgatg 300
ggaagcaatt gtgattgaac tccagacgta gctgccactc ttgcaattgc agattcttcg 360
aacttgcgtg ttatntagta atttgtatct cgagggtaca ttacaattag aaatttaccc 420
tggcagagct att 433

<210> 3390
 <211> 361
 <212> DNA
 <213> Glycine max

<400> 3390

aagcttctcg atgtattatg cgctgaatc ggacatccgt gtgaatggat atgaccattg 60
 gaatttctta ttagcttccg ttgttcaatt tcaaacttct ccatttatta tgcgcctgaa 120
 tcggactttc gttgaaaagt tatgatcaat tgaatttcac gagagctttg gttgtccaat 180
 ttcgagcgtc tcgatataatt atgcacctga atcggacttc cgtgtgacat gttatgacca 240
 tttaaatttc tcgagaccat accttgttca atttcgagcg tctcgatata ttatgcgctt 300
 gaatcggaca tccgtgtgac aagttatgat cattggaatt tctcgagagc tttcgatgtt 360
 c 361

<210> 3391
 <211> 422
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3391

agcttctcga tatattatgt gcctgaatcg gacttctttg tgacaagtta tgaccattng 60
 aatttctcga caccatacgt tgttcaattt cgagcgtctc gatataattat gcgcctgaat 120
 cggatgtccg tgtgacaagt tatgaccatt tgagtttctc gagagctttc gttgttccat 180
 ttccagcttc tcgatataatt atgcgccgga atcggacttc cgtgtgacaa gttatgacgc 240
 attgaatttc tcgagagctt tggttgttca atttcgagcg tctcgatatg ttatgcacct 300
 gaatcggact tccgtgtgac aagatatgac catttgaatt tctcgagagc attcgttgtt 360
 caatttccag catctcgata tattatgcgt ctgaatcgga ctttcgtgtg acaagttatg 420
 ac 422

<210> 3392
 <211> 435
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 3392

agcttcaaga aaaatggcct ctatatactc cttantttcca taacgaaatt ctatcaatag 60
acctccaatt nttaatggag agggttacca ctactggaaa acccaaatgc aaatnntttt 120
ttatgcaata gacttaagta tntgggaagc catagaaata gggccatata taccactac 180
agtagaaaga attacaatag atggtagcac atcaagtga agcataccat tagaaaaacc 240
taaagataga tgggtctgaag aggatagaag acgagtacaa tacaatctaa aagccaaaaa 300
cataataaca tttgccctgn gaatggatga atatttcagg gtttcaaatt gtaagatcgc 360
taaggaaatg tgggacactc tacaattaac acatgaagga actacagatg ttaaaagatc 420
tatgataaac acact 435

<210> 3393

<211> 414

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3393

agcttgaaat tgacaacgga tgctctcgag anaatctatt ggtcataaat tttcacacag 60
atgtccgatt cgggggaaata atatatcgag actcacgaaa ttgaacaacg gaagctctcg 120
agaaatttga atggtcataa catttcactc ggatgttcga tccgggggaca taatttatcg 180
agacgctcga aattgaacaa ccgaagctct cgacaaatta gaatggctcg aacttttcac 240
gcgaatgttc gattcgggga cataactcat ctagacgctc gaatatgaac aacggaagct 300
ctcgagaaat ttgaatggtc ataagttttc acacggatgt ccgattcggg aacataatat 360
atcaagacaa tcgacattga acaacggaag ctctcgagaa aatcgaatgg tcat 414

<210> 3394

<211> 402

<212> DNA

<213> Glycine max

<400> 3394

agctttgatt tcctttgttc ctgttacctt tcttttctca tgtgcacca aaccaatct 60
ccgggttcga agacaacctt ctttctccct ttgttggtt gtttagcata gcttttattt 120
ttcctctcaa tttgatcttt gactctctca tgaagcttct tcacatagtc cgcctttgct 180

tgaccttctt	tatgcttaaa	aacagaaaca	ttaggcata	gcaaaagatc	aagaggagtt	240
agtgggttaa	aaccataaac	aacttcaaaa	ggagaacaat	tagtggtgct	atgaacagct	300
ctattgtaag	caaattcaac	atggggtaaa	caagctctcc	caagttttaa	gttcttcttc	360
aaaactgtcc	taaacaaagt	tcccaaagtc	ctattaacaa	ct		402

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<210>      3395
<211>      433
<212>      DNA
<213>      Glycine max
.
<223>      unsure at all n locations
<400>      3395
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<210>	3396
<211>	435
<212>	DNA
<213>	Glycine max
<400>	3396

acaatggaag ctctcgataa atctgaatag tcataagatc tcacacggat gtccgatttg 420
gggaaataat atatc 435

<210> 3397
<211> 458
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3397

tctanactnt atacaagaat gaagctctga taccacttgt tagacttgtg gcctcttata 60
tcttaagaag ggggggttga attaagatat tccaaactac ttccccaatt aaaaatctat 120
ttcacttttt attcaagtta taaattacct taataatgaa cttcttaaatt attgattcaa 180
ataaaacaat ttgaatataa atataaagca ataataaaca aaggagatta agggaagaga 240
aagtgcaaac tcagatttat actgggttcgg ccacaccctt gtgcctacat ccagtcccca 300
agcaaccgcg ttgagagttc cactatcttg taaattcctt ttacaagttc taaacacaca 360
aggacaatcc ttcctttgtg tttagaattc ctttacaaca agagaccac ggtctcttaa 420
tcccttagag aatgaggaga agaagaagaa tgaatctc 458

<210> 3398
<211> 439
<212> DNA
<213> Glycine max
<400> 3398

agcttgcctt gcccttgat atatttgagg gactcatggt cactatgaat gacaaattcc 60
ttgggataaa ggtagtggtg ccatgttttc aaagcccgta ctaaggcata caactcctta 120
tcataagttg aatagttaag ggtaggacca cttaactttt cactaaaata agcaattgga 180
tggccttctt gcatcaacac agccccaatc ccaacatttg aagcatcaca ctcaatttca 240
aaagattttt gaaagtttgg caacgcaagt atgggtgcat tagttagctt ttccttaaga 300
acattgaaag cttcttcttg tttctctccc catttgaaac cagcattttt cttgagcact 360
tcattgagag gtgctgccaa tgtgctaaaa tccttcacaa attgtctata aaaacttgct 420
aagccatgaa aactcctca 439

<210> 3399
 <211> 403
 <212> DNA
 <213> Glycine max

<400> 3399

cgagtgtgaa tgccttgctg agggcggttg ggggacagag gtattataac tcttaagacg 60
 attatgattg ttgggaagaa aggggttggg gggaataaga agcctatgtt tgttcagttt 120
 gtgttgagac ccttggtgca ggtgtatcag ggggccttgg aaggggataa ggggctggtg 180
 gagaaggtta ttaggacctt tagtttgtcg gtgccgcagc gggagctgca gaacaaggat 240
 gtcaaggttg tgctgcatgc gggtatgagc cgctggcttc cgctttcgga ggcggttttg 300
 tccatggtgg ttaggtgttt gccggacccg gtgacggcgc atgcatttag gatatccagg 360
 ttgattccca agaaggaggt tattggggat gtggaggggg ttg 403

<210> 3400
 <211> 444
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3400

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 ggttgattaa tggatgacta gatttcatag aattagaaaa taggtaatta agtcttaaga 120
 gtttaaagtt gagagtattt ttgtaaatga ccatacgact agtttaaaaa tagaatttta 180
 gtttaattag tgtctgatta tatatatgga ataattaaaa tatgttagag ttgtaacacc 240
 ctgaaaaatt ataactcagg ctgatagagg aaactctatg ttgtgtcatc tgtgcatgtg 300
 tgtatataat tgcaatgatt atgtgttttt aattattaat ttttgtgcta tatatgaata 360
 tattttgtgt aaataatttg tttagtctag cttggcagag atacgagaac tgcctaaatg 420
 aaaattccat ttgtaacana attg 444

<210> 3401
 <211> 460
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3401

agccgacctg ctgcatgcaa gcttggtcgt aagtctcatc ccatatcgag ggctcaattn 60
tcttgagtgt tttgttaaata ggcttcacct tctcagcaag cttcgggagg aacctagaca 120
gggatgctag cctaccattht agtttttgaa cttcttagtc gttgatcgag ttgtgcatct 180
ccaatatggc agtgatattta tggggggttag cttcaatccc ctggtaagtg atcatgaagc 240
caatgaactt gcctccgctt accccgaaag tacatttttc aggggtggagg cgcattgtcat 300
atthtgaggag ttccccaaaag acttcttcca gatccatcat gtgttaggct atgctttgag 360
acttgatgac catgccgtcc atatataact cgacgtttca tccaatctgt tgtttaaata 420
cttggtccat cagccgttgg tatgtagcgc atgcattttt 460

<210> 3402
<211> 434
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3402

agcttataga atatataata taataacaat gacattttgt gagtctatac atgtttcctt 60
tgatgagtct aatgccattc taccaaggaa tgatttttta gatgatattt cagattcctt 120
agaagataca catattcatg gaaatgaatc taaagaaaaa gatgaaggaa gcaatgagga 180
ttctcaagat aatggggcta gaggaataaa tgaacttcca agagaatgga aagcctcaag 240
agatcatccc ctcgacaaca ttattggtga tatatcaaaa agggtaacaa ctagacattc 300
tcttaaagat ttatgcaata atatggcttt tgtatctatg attgaaccta anaatataa 360
agaagccata gtagattata actggataat tgctatgcaa gaagaanctg aatcaattga 420
aagaaataat gtgt 434

<210> 3403
<211> 420
<212> DNA
<213> Glycine max
<400> 3403

agcttcttga catcctggag gactatttga atattttattt tgggcctaaa acgtatgaga 60
gagtggatgg atctgtttca gttgctgac gccagtcagc tattgcacgc tttaaccaag 120

acaaaagtcg atttgttttc ttgttatcca ctgctcttg tggacttggg ataaatttgg 180
 caactgctga cactgtcatc atctatgatt ctgatttcaa tccccatgca gatatccaag 240
 caatgaatcg agcacacaga attggacaat caaatagact tttggtatac cggcttgtgg 300
 ttcgtgctag cgttgaagag cgcactcttg agcttgctaa gaaaaaattg atgctcgatc 360
 agctttttgt aaataagtct ggatctcaaa agaggtagat gatatttaaa atgggggactg 420

<210> 3404
 <211> 439
 <212> DNA
 <213> Glycine max

<400> 3404

gaccttgaaa ctcagcttat gagagagtca agatcatttg gaggataata aaactttgct 60
 aaacagccac aaagggagat agaagttgtc ttcgaaccg gagattggtg ttgggtgcac 120
 atgataaaag ataggtttcc ggaacaaagg aaatcaaagc ttcaaccaag tggagatgga 180
 ccatttcaag tgcttgaaag aatcaatgac aatgcttaca aagttgagct gcccggtgag 240
 tataatgtta gttccacctt caatgtctct gatttatctc tttttgatgc agatggagaa 300
 tccgatttga ggacaaatcc ttctcaagag ggagagaatg atgaggacat gaccaagagc 360
 aagggcaacg atccatttga atgacttggg cgacctatga caagggcaag agcaatgaaa 420
 gccaatgaag ctcttctac 439

<210> 3405
 <211> 460
 <212> DNA
 <213> Glycine max

<400> 3405

ctcaagctgc acccggaagc ctaatttaaa cgagatcatt ttgttcaagc tcgcacctcg 60
 cgtagcttga aggcttagag ggttgggtcg accctcattt tcacacaaaa taaaacaaag 120
 aattaaattt gaagaatctt gcaaggtgat ggtgaggagt gtgagctagc cgacgatggc 180
 aataatgttg tcttgtaggg cggaagagag gatttttcaa ctaatgagga tgaatatctt 240
 gttgttgttg ttgaagatgg agatggtctt gatgaccttg gagagctcga cggggagtga 300
 gagaggaaga ggaggtgggc gaaggtgatg aagcaacgtt ggggtgtcga gggatgatgg 360

tttggcaggg gagtggaaat ctatgagagg gagatgcgga tgggtgctgag ggtgctcaaa 420
 tgcaaagtat gacaataaca tcacagatgg gagaacaaat 460

<210> 3406
 <211> 453
 <212> DNA
 <213> Glycine max

<400> 3406

tgtattgatt taaaacaaaa atgtaaaaca tgtattcaag caaagcaacc tataatgggt 60
 ttactacat gtattgaaag agaaactaac ttacttgaat tagttcatag tgatgtatgt 120
 gataataatg atgtgttaac acgtggtagt aagagatact ttattacttt cattgatgat 180
 ttctccaaat attgctatgt gtatttagtt aatcacaaaa gtgagttgtt taataagttc 240
 aaagtatata aaatagaagt agaaaattaa ttagaaagaa aaattaaaaat tctttgtttt 300
 ggtagagggg gataatacat atttttatat atgaataatt tttttgaaat gcattgtatt 360
 attcatgaag tgacatcttt gtatgcttct caatctaag gtattgcaga aagaaagaat 420
 cgtaccttgc ttgatatggg gaatgttatg ctt 453

<210> 3407
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3407

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 agctctgcaa caagtcctag ggaagtagac ccggagatgg acaagaaaat ccgcagtatt 120
 gtgagtagca ttctgaaaga tgcttctgtg cctgatgctg agaaagatgt tccaacatct 180
 tccaccccaa gtgtttccgt gcctgatgct gagaaagatg ttccaacatc ctccgctcca 240
 aatgctgaag ccctcccgtc acccagtga gaggaatcaa cagaagaaga ggatcaagcc 300
 tcagaggaga ctctgcacc acgggcacca ganactgctc caggtgacct cattgacctg 360
 gaagaagtgc aatctgatga agaaccatt gccaacaggg tggcacctgg cattgcggaa 420
 agacttcaaa aca 433

<210> 3408
 <211> 445
 <212> DNA
 <213> Glycine max

<400> 3408

tctagaatgg tgtaccagat gatcgtggcc ccatccaagc tatcttgaa gaagtgcac 60
 aacaacttct catccctgga atgtgcccc atcttgcgac aatacatttt gagatgggtc 120
 tttggacaag ttgtcccttt gtacctatcg aaatcaggta ccttgaattt cgggggggatg 180
 acgatgttcg gtactaagca aagatcagtc atgtccgcaa acggatagtc gccaaagcct 240
 tcaacagccc tcaatctctc ttcgatgaga tcgagtttcc tcttttcttc tgctgccgtg 300
 cgtagccctc ctgtggacaa aaatattggc tgtgctgggg agtttcgagg ttctcccatg 360
 aggttgggct gaggtagtgc gttgggtgcc ggcccctcgg cagggaatgg ggagtaggaa 420
 tcaatgtctc cttgggcatg ccctc 445

<210> 3409
 <211> 430
 <212> DNA
 <213> Glycine max

<400> 3409

tgcaagcttc tcgatatatt atgcgcctga attggacttc tttgtgacaa gttatgacaa 60
 ttttaatttc tcgagagcat tcgttggtca atttcgagcg tctcgatata ttatgcgcct 120
 gaattggact tccgtgtgat tagttatgac catttgaatt tctcgacagc ttccgttggt 180
 caattgagcg cgactcggtg tatgatgcgc ctgaattgga cttccgtgtg acaagttacg 240
 accatttgaa tttcttgaga gcttacgttg ttcaatttca agcttctcga tttattatgc 300
 accttaatct gacttccgct tgacaagcta tgaccatttg aatttctgga gagcttccgt 360
 tgtgcaattt cgagcgtctc gatatattat gcgcctgaat cggacttccg tgtcataagt 420
 tatgaccatt 430

<210> 3410
 <211> 453
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 3410

ctt gat gcta gtgtt gaatg tgttaaaggt aaacagacca aaagctagaa attaggtgca 60
tatagagcta catacgtctt ggaattgata catacggaca tttgtgggtc atttcataca 120
tcttcatgga atgggtcatca atattttata tcattcatag acgattactc cagatatgca 180
tacttatttc ttatacatga aaagtcacaa tctttggatg tgttcaaaac atttaaagtt 240
gaagttgaaa atcaactcaa caaaagaatc aagagtgtta gatctgaccg tgggtggtgaa 300
tactatgggt gatatgatgg ttcaggtgaa caacgtccgg ngccttttgc caagtaccta 360
gaggaatgtg gaatcgtccc acagtacacc atgtcagggg cacctagcat gaatgatgtg 420
gctaaatgac gaaacataac tcttaaggat atg 453

<210> 3411

<211> 435

<212> DNA

<213> Glycine max

<400> 3411

agctctgatg caagatttgg agaggttaat gaaacttcga gatgatgctc tccatgagag 60
gttggatcaa atggaaaata gaaatcataa tgaagaagaa aggaggagaa gagggaatga 120
tgggtgttct agacaaaacc gaattgatgg tattaaactc aacattcctc cctttaaagg 180
aaagaatgat ccggaggcct acttgtagtg ggagatgaaa atagagcatg ttttctcatg 240
caacaactat gaggagaacc aaaaggtgaa gcttgccacc atggagtttt ccgactatgc 300
tcttgtgtgg cggaacaagc taaaaagga gagagcaaga tatgaagagc caatgggtga 360
tacatgggtg gagatgaaaa ggatcatgac aaagcggat gtgccggcta gttactcaag 420
ggaattgaaa ttcaa 435

<210> 3412

<211> 475

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3412

ctatagacca ctcaagcttc atgatgatga atcaagttga ttcaagtagt tctgattatg 60
acttagatga tgacttaaata cccaagagaa tgattttcaag atggagtcaa cgtgttcaag 120

atcaagataa aatcaagatt aatttcgagt ttcataaagt tacatcaaga agaatacaaga 180
 ttcaagagaa gatgacttca caagggaagt gttgaaaaga atttttcaaa aatcaaacaat 240
 agcatatattt tgttttataa gaaaagtattt tctcaaaatt ttctaaggta ccagagggttt 300
 tactctctgg tgatctatta ccagtttctt gtaatcgatt actagtggca gagtttgatt 360
 tcaaaagctt ttaactaaat ttgcaacgtt ccaattgatt ntcaaagtgt gtaatcgatt 420
 acaatatatt ggtaatcgat taccagtgtg tctgaacgtt gaaattcaga ttcaa 475

<210> 3413
 <211> 433
 <212> DNA
 <213> Glycine max

<400> 3413

tcttatccaa ggctcatctt ggtggtgaag ctcttttttc catggcttat tccttaatgg 60
 atggcgcttc ctctcacctc ttctcctttg tcttcgctg catctccatg gtgaaaaatc 120
 accattgaag gacctcattg aagctcaaag atccagcctc catagaagct ccacaagcta 180
 gcttccatca agaaaaaaaa aaaagtcctt actacaaaga ctactcataa tgccccgaaa 240
 tacaaggcta aaacctata ctattagaat ggccaaaata caaggcccaa acgaagaata 300
 aacctattct aatatttaca aagataagcg ggtcatgctt agcccatggg ctcaaatct 360
 accctaaggc tcatgagaac cttatggcct tcccttggat ctctaacca atctacttgg 420
 agtcttctac cca 433

<210> 3414
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3414

nggccgccac ggagttttccg actatgctct tgtgtggtgg aacttgctac aaaaggagag 60
 agcaagaaat gaagagccaa tggttgatac atggacagag atgaaaaaga tcatgaggaa 120
 gcggtatgtg ccggctagtt actcaaggga cttgaaattc aagctccaaa aactaacca 180
 aggcaacaag ggggttgagg agtattttcaa ggaaatggat gtgctcatga ttcaagcaaa 240

tattgaagaa gatgaggagg taactatggc tcgatttctt aatggtttga ctaatgatat 300
 ccgtgatatt gttgagctgc aggagtttgt tgaaatggat gatttgcttc acaaagcaat 360
 ccaagtggag caacaattaa aaaggaaggg agtggctaag aggagtttta ccaactttga 420
 ttcttctggg tggaaagaca 440

<210> 3415
 <211> 437
 <212> DNA
 <213> Glycine max

<400> 3415

agcttgacat tggagtcaat cgtcgcctag acggtttgtg cacacgcttc attcttagcc 60
 atattgttgg tgcagtcaaa cccagtcctg gctataaaag gtatacattg attgtctaga 120
 gagaccaata ttgttccaac gccatggcct agaatgtttg aagctccgtc aaaccacacg 180
 atccacttgt cccgaccttc gtctagcttt tctcaaaca aggccatgat gtcctcatcc 240
 gggaattcgg gatgcatggg ttgatagtcg ttgagaggct gctgagccaa ataatctgcc 300
 aaggtgcttc cttttatcgc cttttagggtg acatagacta tatcgaactt ggatagcaaa 360
 acttgccacc gggcgatcct cccagtgaag gcattgcttct caaagatgta cttaaccggg 420
 tccatcttgg atatcaa 437

<210> 3416
 <211> 424
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3416

ntagaagttg gggtcactta ttatttaact cattgatttg ccgttaaaac taatggaaaa 60
 acgagagtgt gtaatatattt tgtttttcgt cttgtatgaa catccttcag taaaatgaac 120
 atttctctct atatgattaa ctttggattt tgagtcatac ctcattccaaa tctagacata 180
 catgactttt tatactggta aagtttataa attttttgta tatgataagt ataagttatg 240
 caatagttct ataaattctc tatagaagac aaaaatgtaa acttgagttt taatataaat 300
 gtttaatcag ataaatatat ctatgtataa atttggtttg agttggatta gattgaattt 360
 caaaatgaaa tccaaaatct gattttatcc aaaaaaatg ggttattata ttttaattgt 420

caac

424

<210> 3417
<211> 411
<212> DNA
<213> Glycine max

<400> 3417

tggttacctc tttcttcact atacatcaag aatcaccggg ttgagtcttc tctgtggttg 60
tcttactggt ttagcctcat cttctaaatt tattcgatgc atacatgtgg atgggctaata 120
accaggaata tctgccaggg tccagcctat agctttctta tgcttcttga gaacaaataa 180
caacttctcc tcttgctcat cagcaaggga ggcagatata attactggaa aactttttgcc 240
atcatccaag taagcatatt ttaaattaga tggtagaagc ttcaattctg gtgtgggcgg 300
ctggatagtg gtagaaagag atggtttctc agcctacacc tcataaagaa agtccaggta 360
tttgtactta cttgaacatg gttagtttga tctgactcta taaaatcaat c 411

<210> 3418
<211> 332
<212> DNA
<213> Glycine max

<400> 3418

ctggaactac ttcacatgga cttgatgggg cctatgcaag ttgaaagtct tggaggaaag 60
aggatgcct atgtgggtgt ggatgatttc tccagaatta cctgggtcta ctttatcaga 120
gagaaatcag acacctttgc aactgtcgag cacttccaca tctttggaag tccatgttac 180
atthttggcag atagagagcc aaggagaaag atggatcctc agagtgatgc aggaatatc 240
ctgggatact ctacaaacag cagagcatat agagtgttcc attccagaac cagaacagtg 300
atggaatcca tccatgtggg tggatgatgat ct 332

<210> 3419
<211> 535
<212> DNA
<213> Glycine max

<400> 3419

agcttgtatt acttatatta caataaaaaa tttgtattac ttatatgtac aaatgaatgt 60

gtatagtttt tataaattat gtaaaataat ttatatgaat aattttaata catataatcc 120
 tttgtatata ataatcttga atatgattgt ttttcgtaaa taataattat ttttctgtga 180
 atgataattg tgatctttac cttaactaaa aaatatgtgg ttaaaaaata tgtttaattt 240
 ttttgaaaca cagcactcag tttttctcca aattaaaaca gataatttaa actaaatgta 300
 atttatattt agaattgaca taacaaagaa ataacatagt atttgaaatg aaaaaaaaaa 360
 ctgagaaata aaacgtcaat aatagagttt aaaattatat cattccctag caataaaact 420
 aacaactata ctttcaaag attttattaa tatcatgtta aatattaaaa attttttaat 480
 actatgatat tatttagaag taggtcttat aagatgatat atctcattga atcta 535

<210> 3420
 <211> 510
 <212> DNA
 <213> Glycine max

<400> 3420

tcttatccaa gctcatcttg gtggtgaagc tccctcttcc atggcttatt ccctagtgga 60
 tggcgctcc tctcacctat tctcctttgt cttccgttgc atctgcatgg tggaaaacca 120
 ccattaaagg acctcattga agctcaaaga tccagcctcc atagaagccc cacaagcaag 180
 cttccatcac atatggaact attaaaaaaaa tcattagtaa aaaaaacata aagttattgt 240
 gatagtaatt tgttgaacaa tgaaatagtt atttgttaga aataaaaacc aaaattgtag 300
 ttgtattttg gtcattacat taaattttta ttagaattag tgttgtcaac tttatatatt 360
 tcacaaaaaa tctatatgca tttatcaata tatttaagta ataaaaaag tttatgaata 420
 aataataaga cattggttat gaattattaa attgggattg attgaagtat tgcttgaacg 480
 ctcacaaatt attatgaatc ctttaatgtg 510

<210> 3421
 <211> 493
 <212> DNA
 <213> Glycine max

<400> 3421

tataactgca tgggtgtgcc caataactga taagatgcaa aataaattta gaaaaaatc 60
 attattccct agatacctat taattgcaag agagaaatga tctaaaaata gtattatcta 120

atgtaagctg aatggctgat ccttcaagaa atgtatataa tcatttccta taattattag 180
aaattatttc ttatttatta ctgttactat tgtttgaatt aaattaaaaa gaaaataata 240
tacagatagg acaaggaatc tttcctaaaa gacaaaaaca gacaagaaag ctttcttttt 300
tctttactta aaattatagc attcctctct tagtaaattc accaaactcc tgcaattcag 360
atgttaaaac acagaatcct acttcataag ccttatctgg gctcagattt aatgagtcaa 420
aatcctaata taattagcaa ttactcaat cttggagaat gttgctatca aacaaattca 480
caattagttt aag 493

<210> 3422
<211> 629
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3422

tgaggattgt gtaccttcca gattggatgg ttatcggttt caatgactta gtctctacgc 60
atttcgtcct tgggggttgt gtaccctttg gggttgatca ttcccaatcc atagcttaac 120
ccttccgatt cgtgccttga gtccaacctt gcctcatcat atctatgtct aatctaatta 180
tctctaaaag cctaaacgca ccataaaatc gtcatagaca caattaatca cacctcgaga 240
atcttgagat atgggagaat attttgaaat gtcataatgc attgactcat gaatataaga 300
gaggatacac atagtaaag atgataaata gtcactctct tgacctaaga agacaagtgt 360
agcaatacaa tttgcttgag tactctggat tangtttgtt ccatctacga gaaaaccttt 420
ttctaaaata aatataaata tttgtgttca atttgtctct tcctttactt ctttattatt 480
atatttattc ctaaataata agttctttta actaattcat atcatttaaa agaaatttaa 540
taatttaagt agtactatta atttgttaga aattggatta tcttttaaaa tacccttata 600
atttttctaa tcctattata agaaataaa 629

<210> 3423
<211> 337
<212> DNA
<213> Glycine max
<400> 3423

gcttgtcatg ttttctggtg atgcagactt tgctgatgga gtcataatc ttctcaataa 60
 agaaagtgaa atacgcogtg gtggatttgg agttgtttat cgaacttttc ttcgtgatgg 120
 gcatgcggtt gcaatcaaga agctcacagt cttcagtttg atccaatccc aagaagactt 180
 tgatagagaa attaaaaaac ttgggaatgt caagcacccg aatctcgtgg cacttggagg 240
 gtattattgg acttcacact tgcagctcct tatttatgag tacctatcca gtgggagttt 300
 gcataaagtt ctacatgatg atagcagcaa aaatgtc 337

<210> 3424
 <211> 256
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3424

aaactcagcg gcaccaagct ccggatgagc tctagctatc acccacaatc ggggtgggcaa 60
 actgaggtca tgaatagaat tgtcgaacaa tatctttgcg cattcgtaca ccaccaacct 120
 tctacctgag gtcgcttttt gacttggggc gaatgggtcat acaatacttc ngttcattcg 180
 gccaccggca tgttccccta tgaaattaca tttgggaaga aaccaccctt gttctctgcg 240
 atacattgaa agaaca 256

<210> 3425
 <211> 548
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3425

tgacagcacg ataagctaga aagagcttat tttgttgagc ttatctctga aactggtata 60
 attaaaatag agcttatttg aaggctaaaa atgattttca tgagcccaaa aaagataatg 120
 taatttttta tggccaaata atatatgttc ataaaacaaa aatttaagga ttgatgatcc 180
 tgcttgtggt gtgcaagttt ttgtgcaagc tatgtgaagc tactgcctgc aatgaagaca 240
 tatgaatatg gctttcgtgt gtttttgttg acattttgta ttgtattggt atctgggaga 300
 actagcaagg aatttttctc cacagccttt tacagattaa ttcttattgc aattggtgct 360
 agcatatgct tgtttgtaaa tattttcata taccatctt ggtctgggga ggatctgcat 420

aaattggtgg tgaaaaatth caatggagtt gctgcatctt tagaagggtt gcttgaatth 480
 ccccatatgt tctgaatccc ttgcaagatt tgttggtgct ttttatgcct ggntgctgta 540
 cttaatth 548

<210> 3426
 <211> 608
 <212> DNA
 <213> Glycine max

<400> 3426

ttgatttctt ttgttccgga aacctttctt ttctcatgtg cacccaaacc ctatcttcgg 60
 gttcgaagac aaccttcttt ctccctttgt tggcttgtht agcataactt ttatttttcc 120
 tctcaatthg atctttgact ctctcatgaa gcttcttcac atagtccgcc tttgcttgac 180
 cttcttaatg cttaaaaaca gaaacattag gcataggcaa aagatcaaga ggagttagt 240
 ggthaaaaacc ataaacaact tcaaaaggag aacaattagt ggtgctatga acagctctat 300
 tgtaagaaaa ttcaacatgg ggtaaacaag cttcccaagt ttttaagtht ttccttcaaa 360
 ctgtcctaag caaagthccc aaagtcctat taacaactth cgtttgccca tcggcttgth 420
 ggtgacaagt ggttgaaaat aacaatthtag tggccaactt gctccacaaa gtcctccaaa 480
 aatggcttat gaacttagag tccctatcac taacaatgct ccttggcaaa ccatggagth 540
 tcacaatctt cttgaaaaac aaatcagcca catgggaagc atcatcaatt tttttacatg 600
 gaataaaa 608

<210> 3427
 <211> 493
 <212> DNA
 <213> Glycine max

<400> 3427

ttacgcgcca tgcattgacta ctatccatth cgtacgtagt cttccaggta aatgggtatc 60
 ttctttcttcc tcttgggcct aacttcactc tctctctgth gttcctttgc taattgcaga 120
 cccctcgagt tattcgtaac actctctgth ccatcaaaca acaccttgth ctcaaggthg 180
 tgaagctcct taaagtctga ccactcttcc cactgattth cttcaagthg caggccttht 240
 cactgcacca acaccataag ttttggctth gactaagagg gaattagtht ggacgctact 300

atggcctaaag gagtgacgac aggggtgattg tccaaagcca taggtggaag atcaacagtg 360
 cctctcggac atgcaatggc cacatagggg ttaaagagag aagaatgaaa aacggaatga 420
 atgcgtagaat ggtctggttaa ttgtagctgg taagctactt tacccatgcg tgctgtaatt 480
 tggaagggct cat 493

<210> 3428
 <211> 484
 <212> DNA
 <213> Glycine max

<400> 3428

tgaagggcta acctatttag caacaatatt atttaatgaa aattttatta gcaatatgat 60
 atataataat tattttaatg aaattgcaaa attactttat gtgggtctaac gatttgaatc 120
 attttaatgt ttgaaattgg ttaatttcaa taagcataga tggataacaa gaatatggac 180
 tcttttcttt tgggtaaggg tggtcgtg cgggttttaa ccaaattcaa gactcaacct 240
 aatcaaattt gattagtttg ctttgatttg gtttttacct tttttaaac caaccaatt 300
 cattcatgaa cgatttggtt cagttcgtgc caacagggtta tccatttaaa ttagatcttt 360
 ttttcttata actactattt tatatcaaga ttcattcaaa tatccaatac aattaatctc 420
 atcaacataa tattctaaaa tacactaatg ccacttttaa aaaatattct tcaacgatat 480
 ttac 484

<210> 3429
 <211> 309
 <212> DNA
 <213> Glycine max

<400> 3429

tctcttgaac atcttgaact cattcttttg attgaccttt gagctttttg tcatcacctt 60
 tggtatcatc aaaacatctt tgaatcaatc ttgtttcatc atgaagggtt gcttctacag 120
 cgatatctca aggggggtata gttgtagacc cctctaagat agaagatgct ctcgagtggg 180
 agagttcaaa gtctgctttt gagattagga gttttctacg cttagtagga tattatcgaa 240
 gaatcataga aggtttctcc aagttagctc tacctctgac caaactgact tgaaggggtc 300
 aagttttgt 309

<210> 3430
 <211> 639
 <212> DNA
 <213> Glycine max

<400> 3430

tgggagagga tgctgaagat gaagcagtgg agagggttctt gagccatgga atgagggagt 60
 tgccatcaag attgggaatt tgggtgtagt aaggggatga tgagccaagg cttggattgt 120
 aggaagcaca tggacttgga tggtaagatg agcaagggtc tgctgctgct gatgatccac 180
 caactatctc catgccctct gaaggcttgc atccctaatt gtacacaaaa tatattttca 240
 ttaactgac ataatatgtg gcatgtaata ggatttccat caccaaaatc ttttcaaata 300
 taacaaataa atcattagta agacactcta ataaactcct tcatgttggt tccagtaaata 360
 atgtggattt tttggtagat tttattccca aatcagtga aactcagatt aacttcaacc 420
 aataaaaaaa aatgtgttga aaagaagtaa atgcacgagt tatttaactc agcatgttct 480
 cagtatattg ttgctatcaa atctaacca catggcataa ctattattta ttgaataact 540
 caacttcatt caaactaatt aactataatt tatcgaatag aacaattgtc tctcttctat 600
 ttatgttggg tactcgctac aatgtaatct ctttttttt 639

<210> 3431
 <211> 347
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3431

caatcaactt gcttcaccag cagctcctat tgaaacacca aacttagttt ttaaggctac 60
 acaaagagtc taacatgcta tgacaaatta aatttcactt ttcttctagt tcgtatttct 120
 cagaatatta cacatacaac agagccgata ccaaccaatt gaactatggt ttccaatatt 180
 aacttgagca gcaaccaact ctcttcaaag cagacacatc atttttcaga atcaatttct 240
 cttctttggc aagcacagat gcagttccat tntcagcccc ctctactgct ttcttgctaa 300
 caatgcggtg gatttgaatc agaacttcag cacatgcatt ctctaca 347

<210> 3432
 <211> 347

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3432

ctatcttggt aaaaaatcaa aacaggatca atggcatatt ctatctttat tatcatatca 60
 gaattatagg aagaatatct cctgctatta attgcattaa ttataattaa tttatataaa 120
 tgaacatccc atgtgtactt tgatacacga tttttactct attattcctt tttttttctc 180
 ttatctttaca tttttactag gagaaagggt aaaataatag ataacctctg tattacaata 240
 cttatgtagc atatcttttg atgagttntc ggtacctgt acctagtata aatatattct 300
 anttgccgat aaaaaatgta acatttctat accaatataa atcattt 347

<210> 3433
 <211> 407
 <212> DNA
 <213> Glycine max
 <400> 3433

tctggtggga catcttgact tgctttccaa tctgacattc accgcagatt ctgccttctt 60
 ctatcttcag attgggaatg cctctaacag cacctttgtc aatgattttc ttcattgctc 120
 ttaagtgcag atgtccaaat ctttgatgcc atattctgac ttcattcttct ttggagaata 180
 gacatgtgga ggagtaacta gtttcttgag gtgtccatag gtaacagttg tcctttgatc 240
 tgctgccctt cattaggact tcaactcttct catttgtcac caagcattct gactttgtga 300
 agtttacatt gaacccttca tcacacaact gactgatgct gatcaagttc gcaatcagtc 360
 ccttcaccag cagtactttg ttcagactag gaagtccatc atggact 407

<210> 3434
 <211> 461
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3434

gatatttggtg ttgaatgcat taaagggtaa ctgaccaaca acatgatatt atgttcatat 60
 agangtacat atgtcttgga attgatacat actaactttt gtgggtcatt tcatacacct 120
 tcatggaatg gtcaacgata ttttatatca ttcatagacg attactccat atatgcatac 180

ttgtttctta tacatgaaaa gtcacaatct ctggatgtgt tcaaaacaat taaagttgaa 240
 gttgaaaatc aatcaacaa aagaatcaag agtggttagat ctgatcgtgg tggatgaatac 300
 tatgacagat atgacagttc atgtgaataa catcccgtn g ctttttccac agtacaccat 360
 gccaggggtca cctaacaatga atggcggtggc tgaaagaata aacacaactc ttaacgatat 420
 ggtaagaaac atgatttgca tttctactta ctagagcact c 461

<210> 3435
 <211> 505
 <212> DNA
 <213> Glycine max

<400> 3435

caaagtatat aataataatt tatgaatgac cgttcaaact ataatgggag tctaatacaa 60
 atccaactct cacaccgaaa gcaatgagga ctgcggacaa ctaataacat atgtcatcat 120
 aacttatata tagtttaaaa cttgtgatta aatgttaaag gtttcgaatt tattaacaa 180
 ggataaatta ttaatttac ttaaaaacaa ttgttactgg aattgttaat tatttcatcc 240
 ttttgtatgt atttggcaat accccaaaga aactatattg aattctatct tgtactgtat 300
 tatatatgaa ggattgtccc taataaggca caaattcaca taagggatgt tttatgactt 360
 attgatgact taataacatt gatttaaata aaaggggatg ctgttaatca atgtacttta 420
 aagaattaat aatatttgtt tatttaaaaa tacaacacag tatacctatg atattttttt 480
 aaactttttt aatttttgat tcttt 505

<210> 3436
 <211> 364
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3436

aacatactcc ctaacaaaac agcttaagta gttgagtaaa taaatgatag ggcagtgtat 60
 cgagtattgc gccataaga cctatgggtgt ttccacaagc aagccatgca ttgcatgaag 120
 aaggaagttg agtattgtga aggaaaataa aggtctttcg aaccaggggc tggagtactc 180
 aattctttaa caagttcttt gtttcttctg agacagaatg ccgaaaacca ttatcagtaa 240

ccattggttaa taattataat aataacaaat aaattattgc acttctagcg gntaagtgct 300
 ttctagcata tcaactttaga gttctgggtat tctgtagttn tattagatgt gttaccgaat 360
 atac 364

<210> 3437
 <211> 536
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3437

tctatgccct ctttctctgt cttaacgtct tcttcacaag aataaataga acaccgaacc 60
 cccaatccca ttcgttcccg ctaaatecaa cgaaaaccca atggtggggc cctctccctc 120
 ccatggcaac aacctcaaat tctctgcag ctacagcggc aaaatcctcc ctcgttttcc 180
 cgacagcaag ctccgttact ttggcgccca caccgcgta ctgcacctcc ctcgctccgc 240
 tcccttcttc ggtaaaacca ccaccttctc ctcccttctt ggtttccctt acattgacgg 300
 cgtataactg tatttgcttt ggcattgctt ttttcataaa aaatcatgtt caacgtgctt 360
 cggaaatgcc tgattcatgt caaacaacaa tacattaata acgtccttgg gaatacgcta 420
 cacaaaatta cctctaaaga aaaaataatt ctgnggacgt gcttcttttg ntnnttgcgt 480
 tatttattct acctaataa ctttatatta taaaccact tgcatacatt tacatt 536

<210> 3438
 <211> 363
 <212> DNA
 <213> Glycine max
 <400> 3438

tacctcagt agagtgttc tagcaaaagc aacaactagg aattggtgtt tataacaaat 60
 ggatgttaac aatgctttcc tcaatgggga tctgtttgag gaagtttata tggacttgcc 120
 tcaaagttac aaaaccattg ctcttgatct tgtatgcaa ctcaataagt ccttgatgg 180
 ccttagacaa gccttaatgc aatggttttg caagttttct tctacctat tacaataagg 240
 tttcattcaa tcaaaaaatg attattctat tttcacttat ggctttggat ccttattagt 300
 agtgcctttt agatatgttg atgacattat acatgttggc ccaaagatct tcatgtgttg 360
 ctg 363

<210> 3439
 <211> 470
 <212> DNA
 <213> Glycine max

<400> 3439

tatcattggg ggtttaactt tatcattttg tcaatgttgg attaaatttt agcttatata 60
 ttgctaattt cagcttataa gtgaaaatga agctacttta gctcctatat ataaccattg 120
 attaatagca atatggcact ttgagcaaga tttactctct ataagttttc atatcaagag 180
 tcaaatgcta ttgaaatgga taaatgcaca atataattgg tgtgtatcaa ccctaacaca 240
 acaacactac cacaaaaaca cacaccctat gatccacaat ttgaaacgaa gggaaaaagt 300
 catgaaaagt gaaaaagaag agaacctagc tgatgtaagc tccattggag cttgtaggcc 360
 taggatcttc ttcacatg gatccctttg cttcttgga gatgaatggc agcggaatgg 420
 agaaggaaga gggagaggaa acgccacttc aaggagaaga tgagtctaga 470

<210> 3440
 <211> 452
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3440

agcttaaata atataaaata gttacgagaa aaacttggtc aagacgaatt tgaattattg 60
 aaaatatgaa cttgctcact cagcaaacaa tgtagacgaa tttaaaattc ctttgaaagt 120
 aaaatatttg attaaaaaac tatatataaa ttaaggaact tagtttgaca tatattttta 180
 aaaagaaaaa tagtttgaca tgatttttta aaagtaataa tagagaaaac ttgatatagt 240
 aaagaaaaga aatgggacat cattattagg actttatctn tattaaatat tattaatatt 300
 ggctctagtt tgattagaaa aaaaaatgaa taattaatat tggcttactt gtgaactttt 360
 atacaacgaa atatgtagat gaaaaactat cttctattgt ctagaacgaa caacaaaatt 420
 atattntatc tacacaaaaa taatagaaat ac 452

<210> 3441
 <211> 485
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3441

ttgaaaatag agtgagattg aaaacatata ttatggacaa aaacttagag aataattatt 60
ggagttgctt taaaacttgc tcttttaggc ttcaattttc ttaaattaat aatatataaa 120
cattcttata tactattttg gtggtcctta ttataaagtc caattaacta attatcaaaa 180
ttaagaaaat tggatgaattt aattgaaggc attaaagaca tttttgtgaa aaaaataata 240
caaaggacat tttaggttga accttataat acaggatcaa gtgacacttg taatgtggat 300
attataataa gcattagatg gagtaccata ttaacaccca taatttttct ttcactcttt 360
ttctatcatg taatatcaat taccatactt ggattttctt ctcttctctc tttatgggnc 420
aattaatggt caatgaaatg ttttttcatt tcttaactca aattgaaaat aaaaatattt 480
atattt 485

<210> 3442

<211> 415

<212> DNA

<213> Glycine max

<400> 3442

tatgactcag tttcttgggg attcctaaac tatatgatga tgaggatggg attttgtgaa 60
agatggagaa aatggatcca tggatgcctt tctagtgcaa ctatatcaat tttgatcaat 120
agcagcacta ctagagaatt tgtgcctgag aggggactga ggcaaggaga tccccttgca 180
cctttcctat ttaatatagc agctgaggga ctactgggtt tgatgaggac agctgtctcc 240
aaaaacattt tcagcagcta taaagtgagg aggcaaatg aggagattaa catcttgag 300
tatgcagatg atacactggt ttttggaaact gcaactacag ctaatgttag agtcatgaaa 360
tctatcctca aaattttcga gttgggttca tgactcaaga ttaactatgc taaaa 415

<210> 3443

<211> 326

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3443

tgcttgatat tgagtgggtgt agccactcta gaactgcctg caccttagta gcattcataa 60
 caacctcttc acctgaaact atatgtccca agtactctat cttcaatata ccaaaagagc 120
 atttaaacca cttatcaaac aaaacatttt ctttcaatac tttgaatata acctctagat 180
 ggcataagtgt ttcattgcat gtggaactat ataccaatat atcatcaaaa aactactaaca 240
 catatttctt taaagcatgt nggaaaatat ggttcatcaa aactgaaaa gaagtcgaag 300
 cattgggttaa accaaatggc attatt 326

<210> 3444
 <211> 370
 <212> DNA
 <213> Glycine max

<400> 3444

tagacataga aggagagagc ctgagcaaaa taaggctcgc gttctaatat ttttaaagt 60
 aagcccaaca tcggttttca ataaaaaaaa aaaactgatg ttaatcaaat gatgttaaca 120
 ttaacatcgg ttttctggaa gaaaccaatg ttaacttata atatgttaac atcggctctc 180
 tgaaaaaccg atgttaatga actaaagtta acatcgggtc ttgaaaaacc aatgttaacg 240
 aagtaatatt aacattgggt tttcaagaac caatgttaat gtctgttcgt ttacatcggg 300
 ttttcagaag accaatgtta ataaactcac attatttaca attgtgccac caggtttatg 360
 ttgacatcgg 370

<210> 3445
 <211> 267
 <212> DNA
 <213> Glycine max

<400> 3445

taaacattca acttcgagcg tctcgatata ttacgagtct caatcagaca tccgagtaaa 60
 aagttatggc cgtttgaatt ggctcaaagc ttcaacattc aatttcgagc gtctcgatat 120
 atttcgggac tcaatcagac atccgagtaa aaagttgttg tcgtttgaat atcctcagaa 180
 gttctacatt caattttgag cgcctcgata tatgacggga ctcaatcaga catccgagta 240
 aaaagttatt gccgtttgaa ttggctc 267

<210> 3446

<211> 429
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3446

tatgactcag tttcttgggg attcctaaac tatatgatga tgaggactgg gattttgtgaa 60
 agatggagaa aatggatcca tggatgcctt tctagtgcaa ctatatncaa tttgatcaat 120
 agcagcacta ctagagaatn tgtgcctgag aggggactga ggcaaggaga tccccttgca 180
 cctttcctat ttaatatagc agctgagggg ctcactgggt tgatgaggac agctgtctcc 240
 aaaaacattt tcagcagcta taaagtgagg aggcaaatg aggagattaa catcttgca 300
 tatgcagatg atacactgtt ttttggaaact gcaactacag ctaatgttag agtcatgaaa 360
 tctatcctca gaattttcga gttggtttca ggactcaaga ttaactatgc ctaaaaagcc 420
 aattgggtg 429

<210> 3447
 <211> 375
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3447

agcttcaaga aaaagatggc ctcagcaaatt tccttatttc cagaaggga ttctatcaat 60
 agacctcaa tctttaatgg agagggttac cactactgga naaccgaat gcaaattttt 120
 atcgaggcaa tagatctaaa tatctgggaa gccatagaaa tagggcctta tatacccacc 180
 acagtagaaa gagtntcaat agatggtagt tcatcaagt aaagcataac catagaaaaa 240
 cctaaagata gatggtctga agaggataga aaacgagtac aatacaacct aaaagccaaa 300
 aacataataa catctgccct angaatggat gaattttca gagtttcaaa ttgcaagagt 360
 gctaaagaaa tgtgg 375

<210> 3448
 <211> 410
 <212> DNA
 <213> Glycine max
 <400> 3448

tcagcttggt aacatgaagc ctgactttct caataggaat gtgaacccaaa ggtttagtg 60
 cgggtgaacgc aagcgcaatg aaatcttgca gcttgcggtt ttgggggcgg acttggtat 120
 tttggatgaa attgattctg gtttggtatg tgatgcgctc agggatgttg cgaatgcagt 180
 taataggatt ctcacccag aacagtcctt ggtgatgata actcattata gacggattct 240
 ggatcttttg aatcctacac atgtccatgt tatggtaact tactgttgat cttcaatc 300
 attgccagtt ctgaatatgg aatatgtatg atacatgggt gttcactttt cattactggg 360
 attaaggagc tagtcctatc acattctttt cacccttata ttgggatact 410

<210> 3449
 <211> 265
 <212> DNA
 <213> Glycine max

<400> 3449
 gcttctagat gagttatgtc tgcgaatcgg acatcctgtg ataaagttat gaccatttga 60
 atctctcgag tgcttcggtt gtttaatttc aagcgtctcg atattttatg tcctcaaate 120
 agacatcgga gcgaaatgtt atgaccattc gaatttgctg agagcttcg tttttcaatt 180
 tcgagcgtct agatgagtta tgtcaccgaa tccaacatct gagtgaaatg ttatgaccat 240
 tcgaatttgt cgagagctcc cgttg 265

<210> 3450
 <211> 326
 <212> DNA
 <213> Glycine max

<400> 3450
 gctcaaaca tcaatttcga gcgtctcgat atattactgg actctatcat acatacgaga 60
 aaaaagttat tgcggttga atttcctctg agcttcaaca ttcaatttca gcgtctggat 120
 atattacggg actcaatcag acatccgagt aaaaagttat tgcctttga attggatcag 180
 aggttcaaca ttcaatcag agcgactcga tatatctcgg gactcaatca gacatccgag 240
 taaaaagtta ttgctgttgc aattggctca gaggttcaac attcaatttt gagcgtcccg 300
 atatattacg tcaactgaatc ggacat 326

<210> 3451

<211> 302
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3451

ctcgtccacg tggcccaggt caccgggtgcg aatgataccg cttgccgtcg atctccatga 60
 agacctgggc cgtggcgtn c gggcgcttcc agtagccgtc gaagacctcg ggtccgtgga 120
 cgacgatttc gccctgctcg ccctgcggga catcggcgcc gggttcgggg tcgatgacac 180
 gcgcctcggg gctcatgata ggaatgccc ggcattgctg cttgggatgc tccaacgggt 240
 tgctgtgcgt gggcgcggcc gtctcggtca ggccgtagcc ctgctgaag cgcaggccgt 300
 at 302

<210> 3452
 <211> 396
 <212> DNA
 <213> Glycine max
 <400> 3452

agctcgtatg acgggcatga ggaagatgaa cattgttgtt ctttgaagat atgttacttt 60
 ggcagggaa gaaaatgccc acgtgggaaa ttcgtcatgc aatgggtgat gtgtgggaaa 120
 gtgtgaagat ggggttgttc ttaacgaaag taataatgat agtgtagtg ttgggtggctt 180
 gcttggggaa tgtgacatct ttgatgggaa atgggtgagg gatgaattca agccttacta 240
 tccattgggg tcttgtacaa acgcagattg ggattttgat tgccatcttt atggatagcc 300
 tgattgtgat tatgtcaagt ggaaatggca gccaaatggg tgtgacattc caaggaatgg 360
 tgatgctttt gctgttgttg ttacaattgg aaatgg 396

<210> 3453
 <211> 424
 <212> DNA
 <213> Glycine max
 <400> 3453

gcttagttta tgattattta aactaagat aggggttttt ttaatatgtg tgagacatta 60
 taagagtcaa atcttaactt atttatatga tagccacata tctccagat ttaatataat 120
 attcatgatc ttatttaaaa gtatatattg caataagaca tttaaataag gcataaattt 180

atttttcaat aaacttaatt ataaacttta acttaacttt ttgtgtagac cagcatgatt 240
aatattttaa aagacaagta aatgtaatat ttagtaaata tataaccaat ctaataataat 300
aataatacta acaatgaata cttatttata aattttttaa taaatcagcc tatttagcct 360
agaagaactt ttgaatgacc tagaacctaa cctgggtaac taaataaact ctattagaag 420
tctt 424

<210> 3454
<211> 335
<212> DNA
<213> Glycine max

<400> 3454

ttcgagtgcc tgtatattga tgcgcctgaa tcagacatcc gagtgaaaag ttatgaccat 60
ttgaatttct cgagagcttc ctatgtttta tttcgagcgt gtcgatatat tatacgccctg 120
aatcgaacct cagtgtaaaa agttatgacc atttgaattt cttgagagca tccgttggtc 180
attgttgagc gtctctatat gtgatgcacc tgaatcggac ctccgcgtga aaagatatga 240
ccatttgaat ttctcgagag ctttcgttgt tcaattttga gcgtctcgac atatgatgcg 300
cccgaatcgg acatccatgg gaaaagacat gacta 335

<210> 3455
<211> 404
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3455

tcttcactat acatcaagaa tcaccggggtt gagtcttctc tgtgggtgtc ttactggctt 60
agcctcatct tctaaattta ttcatgcat acatgtggat gggctaatac caggaatatt 120
tgccagggtc cagcctatag ctttcttatg cttcttgaga acaaataaca acttctctc 180
ttgctcatca gcaaggagg cagatataat tactggaaaa cttttgccat catccaagta 240
agcatatttt aaattagatg gtagaggctt caattctggt gtgggagggt ggatattggt 300
ataaagagat ggtttctcat cctacacctc ataaagaaag tcgaggatat tgtacttact 360
gaaacatggt tatgttgatc tgactctata anatcaatct caag 404

<210> 3456
 <211> 346
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3456

cactatatac ctaagctctc gagctaataga tacttgngag ttagttcctc ttcttccaag 60
 ctatatacct gcttgggtgtt gatgggtata tgctataaaa gttggggcca acggacatat 120
 tgatcgctc aaagctcgat tggtagccga aagttatact cagatttatg gcctatatta 180
 tggagatact ctcttccctg tggctaaaat taacttctgt tcgactcttt cttgccataa 240
 ttgtgatccg tcattggcta ctatatacagg aggatattaa aaatgccatt ctacatgggg 300
 aattagaaaa agagagttat atggagcaat cactgggatt tgttgc 346

<210> 3457
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3457

gacatcttga cttgctttcc aatctgacat ttaccactga ttctgcctnn nggtatagtc 60
 agattgtgaa tgccctaac agcacctctg tcaatgattt ttttcatgcc tcttaagtgc 120
 agatgtccaa atctttgatg ccatattctg acttcatatt ctctggagaa tagacatgtg 180
 gaggagtaac tggtttgttg aggtgtccat nnnnaacagt tggcctttga tctactggcc 240
 ttcattaaga cttcactctt ctatttctg accaagcatt gtgactttga gaaggttaca 300
 ttgaatactt catcacacag ctgactgatg ctgatcaagt aggaatctgt cccttcacca 360
 ccgtactttg gccagactac gaaggacatc atggactagc ttt 403

<210> 3458
 <211> 392
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3458

tcagagatat gttcaggcaa ggtttttatc aacctattga gtttatattc ggcagtgtat 60

tcagtgccttg cagaagcctt ctngaaccag aatttggacc gcaaatacat ggaatgtgtg 120
 ctaaatttgg ttttaaggagg aatgtttttg ctgggtgctc cctctgtgac atgtatgcaa 180
 aatttggatt cttaccttca gcaataaagg ctttttatca aattgaaagc cctgatttag 240
 tgtcatggaa tgcaattatt gcagcattat ctgacagtgg tgatgttaat gaagccatat 300
 attttttttg tcagatgatg catacgggat tgatgccaga tggcattact tttctctcct 360
 taccttgtgc ttgtgggagc ccagtgacaa tc 392

<210> 3459
 <211> 410
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3459

cgcgatgatnt acattctccc nctttctcaa gcaaattctt aattcttctt gacatcatca 60
 aaatcttcat gatttacata taatagtcgc taagtcttc acttaaactc ttgcaagagt 120
 catgaatact ataggaggaa tgttttctc ttttcatttc tttcattatt tttcttcttt 180
 ctttctctct tattttctct ctttcatctt gacttatttc ttccactctt tttttttacc 240
 tttttctttt ctctcttggt tttctttcca caacttaagg gatctcaact catctaatat 300
 cttatacaag gggtccttat gagtagagcc ctcaccatta aactagatg aagaatgaag 360
 actcatgttg gttcctatgt tatggttctt ccttggttgg ggtttgaaaa 410

<210> 3460
 <211> 441
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3460

aatactccag cttatttgtg ggagccttgt agatcaccaa tgaattcgtg gatcatatac 60
 gcgaagctca ttatgatgac ccgtttttgc aaggcaagggt gttagatgta atgggggata 120
 acgggtgtgga gtttgagaag gacacaaccg ggttaattag atttaagggg aggatatgtg 180
 tgccatcttt agatgatttg aaagttaaga tcttggaaga agcacataaa agtcgtctta 240
 gtttccatcc aggaatgact aagatgtacc aagatttgaa gagaaatttt tgggtggcatt 300

gcatgaagaa agatgtactt gaatatgtat cgagatgttt gacatgtcaa aaggctaag 360
 ctgagcacca gcgaccatca ngagaacttg agccattgga aattttggaa ttgaaatggg 420
 agagcatatc,tatggatttt g 441

<210> 3461
 <211> 433
 <212> DNA
 <213> Glycine max

<400> 3461

agctctgacg caacatttgg agaggttaat gaagtaatga gatgattaac tccatgagag 60
 gttggatcaa atggagaata gagatcataa tgaagaagaa aggacgagaa gaggggaatga 120
 tgggtgttct agacaaaatc gaattgatgg tattaactc aacattcctc cctttaaagg 180
 aaagaatgat ccggacgcct acttggagtg ggagataaaa atagagcatg ttttctcatg 240
 caacaactat gaggaggacc aaaaggtgaa gcttgccgcc atggagcttt tcgactatgc 300
 tcttgtgtgg cggaacaagt tacaaaagga gagagcaaga aatgaagagc caatgggtga 360
 tacatgggcg gagatgaaaa ggatcatgac gaagcagtat gtgccgacta gttactcaag 420
 ggacttgaaa ttc 433

<210> 3462
 <211> 373
 <212> DNA
 <213> Glycine max

<400> 3462

tataatatat cgatacgctc aaaatttaac atcggataac ttttcacacg gatgctcgat 60
 tcaggcgcac aagatgtcta gaggctcgaa attgaaaaac cgaagctcat gagaatttca 120
 aatggacata acttttcaca cgaatgtccg attcaggctt ataatatatc gagatgctcg 180
 aaattgaata acggaagctc ttgagaattt caaatgggtca taacttgtca cactcgggtc 240
 cgattcaggc ttataatata tcgagacgct cgaaattaaa catcggaagc tctcgagaga 300
 ttcaattggc cataattttt cacacggatc tccgattcgg gcgcatcata tgtcgagacg 360
 cgcgatattg aac 373

<210> 3463
 <211> 382
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3463

cttgatctac caccaccgcc gccaccatca ttttagttnt tctcttattt taatattact 60
 agtactttga tttctagccg tgtatttggc tatattatta tggcatttga acaatttagt 120
 atttctttat ttgcatgggtg tgtttgaaaa attatgaatt atgttatatg actatgtgac 180
 ttttctatat atttgatcta gtcattgtttc ttgcttcatg attggtttgt atttttccat 240
 gattgttgtg tgaatgatta gttgtatttg catgtttcat acttgttacg cactctggct 300
 ttttgttgat tccaaagggg gagagaaata nggattaaat caagaactca catgagtaat 360
 aaacttaatt tttagtgaat ca 382

<210> 3464
 <211> 340
 <212> DNA
 <213> Glycine max

<400> 3464

agcttattct aaagcgggaa gagaaaaaag aaatttcata gaaaaactaa acccaagccg 60
 agaagcacag aagcaactca cggtttgcca ataattttga aaaggacact attagaggcc 120
 aggagaggtg caacagagag taccctgtga aagcccttaa caacttttga aagtcagaca 180
 cgacgtcatt ctgcgccccc ccaccgtgct gtgcagaggc aacatcgact gtgtgcatct 240
 cagctcctgc gaaatcctac aacagaccaa cgaccacaac gaccaatcca taattcta 300
 gcttatttgc gattaagagc aaaaacgaac atcgtagcag 340

<210> 3465
 <211> 428
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3465

agcttcttgg aggtttgatg gatcctcctc taatgtatag gccatataat cggggccata 60
 gtatttagca attcttgcctc tcttacctct tcgaggctct atttctgggt ctagttgtgc 120

aagattttca ctactaatag caggaagggtg actagatgaa gtacccccac tattccttaa 180
 tttaaaagga aatttatttt cataaaaatc agcatcattt gactctatga tcacttttgc 240
 gtttaggtca taaaacctat acactttgct attaataaca taaccaatga acactcattc 300
 ataggctcta cttgcgagtt taaccctctt ggggtctagg atccttacat aggccaaaca 360
 tncttaagtt ctcaaatagg acaaatttgg ctgtcttttc attaatatct catagggaga 420
 tgtcttgc 428

<210> 3466
 <211> 395
 <212> DNA
 <213> Glycine max

<400> 3466

cgtttagtgtg tgttaaagt ctaaaaataa gaaaaattat gtataatgtt tctctgttta 60
 aaactttatc agtgaaaata aaatattttg aatatgaatt ttgtagtatt tttttaatta 120
 gattagggtg gtgttaatga tttattagtg tgtaataat tcatgaacgt ttcaactttc 180
 atttaaaaaa attagtagat catatttatt tgaagaaagt attttgagta tgaaatttat 240
 tttaatatga agttgtagta ttttttaaat tagattaggt tcattctttt gtgttaaaaa 300
 ttgataagcg ttcaagttga aagtgttatt tgatgatgtt ttgctgcttc ttgtatcata 360
 tctaatttaa tataatctgta gtaattttgt aatta 395

<210> 3467
 <211> 395
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3467

agctttggcc tttatgttgc tcaccatgtt gttcccccta tctctaaca tctcttctt 60
 tgtggctttg atgatgccaa acttgaatat gacattgagt gcatttggag ggtctgagtg 120
 atgtaagctc cattggagct tgtacgcta ggatcttctt catcaataga ttcctttgct 180
 tcttgaaga tgaagggcag tggaatggag aaggaagaga gagagtagat gccacttcaa 240
 ggagaagatg agtctagaag aagctcacca ccataggagg ccatggataa gagcttggag 300

gaagaaggag atgaatgaag ggagaccgag agaacagcac canattttgt gctctacaag 360
atctctgaaa tatgaagctt aatattcaca tgatc 395

<210> 3468
<211> 376
<212> DNA
<213> Glycine max

<400> 3468

agcttaacaa aaggcatgcg aagcgggccc aatttctaga gcaattcttt tatgttatca 60
aacataaaaa ggcaacaggc actattgtag ccgatgctct ctctccgcgt catgcattac 120
tttctatgcc ttgaaacaaa attgatcggt cttgaatggt cgaagagcat gtatgaaaat 180
gacgaaactt ttcgagaaat ttctaacaat tgtgacaaat tttcacaaaa cggcctcttt 240
acacatgaac gctttctttt caaagaaaaac aaatcgcggtg tgcctaaatg ttctactaca 300
aatttgcttg ctgcggaagc acatgaacga gggtttaccgg cgcattctgg cgtccaaaac 360
actctagaaa catcac 376

<210> 3469
<211> 409
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3469

agcttgaagg caaactggat gcattgggta acttggttaac ccagctgttt ttgaaccata 60
aatctgtacn tgttgcaagg gtctgtgggt tgtgctcttc tgctgaccac catacagacc 120
tttgcccttc catgcagcaa cctggagcaa ttgagcacc cgaagcttat gctgctaata 180
tttacaatag acctnctcaa cctcagcagc aaaatcaacc tcagcacaac aattatgacc 240
tctccaacaa cagatacaac cctggatgga ggaaccaccc taatctcaga tgggtctagcc 300
ctcagcaaca acaacaacaa cctgctcctt cctttcaaaa tgctgctggc ccaagcagac 360
catacacttc tccaccaatc caacaacagc aaccacccca acaaaaacca 409

<210> 3470
<211> 390
<212> DNA
<213> Glycine max

<400> 3470

agcttatagg gagccatggt aatggtagaa tgtttactat cggtataagc gaactctatc 60
aatggaagaa aaccctccca acttctctcc tgctctaaga cacatgctct taaaagggtcc 120
tccaatgact gaatgggccg ttcagttcgg ccacagcct gaggatggta ggctgaactc 180
agtctaagct tgggtcccac cgctctgttc aagctctccc aaaacctaga ggtaaactta 240
cgatctctat catatactat gctacatggc acaccatgta acctgacaac cctccttata 300
tacaacgtag tcaacttttc caacgaatat ctgatactaa tgggaatgaa gtgagtacac 360
ttaatccatc tgccacaata acccatatag 390

<210> 3471

<211> 262

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3471

aacaagggaa gctctcgaga nactcanaga ncatttctta tcacacagat gttcgantca 60
ggcgcataat attccgagac gctcgaaatt gaacaacgaa tgggtgtgag aaattcaaatt 120
ggtcagaact tgtcacacgg atgttcgaat aaggcgcata atatatcaag atgctcgaaa 180
atgaacaacg aatgcccttg agaaatgcaa atggtcataa cttgtcacac ggatgactga 240
ttcaggcgca ttatatatcc ag 262

<210> 3472

<211> 397

<212> DNA

<213> Glycine max

<400> 3472

tgaagacaag actatacgag gtatcttctt tgggtatagc aatatctcta agggctaccg 60
tgtctacaac ttgcaaacta agaaactcgt catcagtcga gatgttgaag ttgatgagta 120
cgcttcttgg aattgggatg aagaaaaagt ggagaagaac gttcttatac ccgctcaact 180
acctcaagaa gaagttgagg aagaagaccc aggtgaacca cttcacctt caccacaaca 240
ataagatcaa gaactatcat caccagagtc tactccaaga cgagtaagat ctttggtgga 300

catatatgaa acctgtaact tggccataact ttgacctgga agctcttgag aagcgtcaca 360
 acatgaagta tgggtcaagg cgatggaaga agagata 397

<210> 3473
 <211> 264
 <212> DNA
 <213> Glycine max

<400> 3473

ctcaagcctg tgtcgcaact tcaactggcg atgttgaata tataaacgtt tgaagcctat 60
 ggactcaaag tctttggatg acgcaacaac ttatagactt tggagatatc ctcaatcaca 120
 ttctctttaa atgggacaac acaagtgtc ttaatctaac gaagaacca attatgcatt 180
 cttaaaccaa gcccacacga aataggcatc atttcctaag agaacatgtg tctaaagggg 240
 actgttgcac tgagctcatt gata 264

<210> 3474
 <211> 401
 <212> DNA
 <213> Glycine max

<400> 3474

agcttaatga acctcatatc caaatgcaaa acatgctgat gattcattca agcaatcaca 60
 aacaagtaat cctaactata tgcagcgatg aataaaatta acaagggttg ggttgccctc 120
 cagtaagcgc tcgtttaacg tcattagctc gacgcacatt acttcatatg tcttgaaaat 180
 acatgagagt ggtcatcctc ttaatatctc cttcacgata ctgctttaat ctctaaccat 240
 ttactacca tggtctgtct acattttcta attgaggatc aaataattcc acagccgcgt 300
 agggttgac atctttgatg atgaaaggtc cagaccattt ggattctatc ttgctgttaa 360
 ataatttcaa tcttgaattg aacaacaaca cttgctgtcc t 401

<210> 3475
 <211> 449
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3475

ataatttaac atatntacag ccacaaatga aaacttggtc attgtccagt cctcctacc 60

ctctctccta tctcctacca caacctcaac aaaccaaaaa aagacatact tcaaatacaca 120
gacaacactg ctggggccaa tatectatct tttttcacc aaatggggg tattagagaa 180
aagaattaca atgaagagag ttaaaattaa aaaatagact tctttatcga attttccttt 240
ccaaagtaaa aattggcatt tctaaagtag tcatctaccg ctattgtttt tcattgttta 300
aatgcaatga cccgtccctc atcaacgtta ggctcagact ggcaaacctc tctcgcgaa 360
actgccttga tgcttttctc caatctgtgc cagccttcat cattgtagca aattcgtcgt 420
aacttatect tccatcctgc aatttcatg 449

<210> 3476
<211> 389
<212> DNA
<213> Glycine max

<400> 3476
gcaagcttgg tactacatct gggtttgatt cagcattaaa atatatattc ttctaatacat 60
tacatgatgt tgttctgatt ataataaatt aaatgaagag ctcatgttt taggggtcaa 120
gatgtgtact tgcacggcga catcttcaac ttctccaac cattccaagt gttgacgccg 180
agaagaaagg cttacgaaga acgctctttg aacgacttgc agacgcgtat ggagatgaaa 240
tcacatccat gcttactgtc cagcaccgta tgcataaact tatcatggat tgcgcttcta 300
aagagctcta tcacagcacc gtactccag tttttaaaagc gtgtctcaag attgcattca 360
ttgcacagca atctttatat gccactaca 389

<210> 3477
<211> 438
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3477

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agtctttgga tgacgcaaca acttaagac tttggagtta tctcaatca cattcctctt 120
aaatgtgaca acacaagtgc tattaatcta acgaaaaacc caattatgca ttctagaacc 180
aagcacacag aaattaggca tcatttccta agagatcatg tgtctaaagg tgactggtgc 240

attgagttca ttgatagtga acatcaatta gtagacatca ttgatagtga actangcata 300
 ttcgatgcat ctagcataga atgacatctt atntgcataa gggatatgtt cactttgtca 360
 ttcatatcat nntgtcttgn ttgggtatgt gtttagctta gtgattcatg tgcattcttt 420
 agttggttga atatcaca 438

<210> 3478
 <211> 384
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3478

agcttcttag tttcagatga tgcagatggg tttgtagcta cctcatgcac tcctctaattg 60
 actatggcat catttctggc gctaaactgc tgggagttgg aggccatctt cctaattaaa 120
 tttctggctt cagcaggagt catgtctcca agggctccac cactggcagc atctatcata 180
 cttctctcca tattactgag tccttcataa aaatattgga aaagaagctg ttctgaaatc 240
 tgatgggtggg ggcaactggc acatagtttc ttaaatctct tccagtattc atacaggctc 300
 tctccactga gttgtcta atctgagata tcctnctgat ggttgtggtc ctggaagcac 360
 ggaaaaattn ttctaagaat actc 384

<210> 3479
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3479

ntgagacgca tgtgatncct tggcatcatc aaaacatcag cttgatcctt tgtctacatc 60
 tgtgtccatg ttttcgactt ctttatttca atttccaaat tttggttaat atattctttt 120
 ctacaccctt tccacaaata attcaaaatt agatttatta aattagttgt aagactcaag 180
 attctgtggt tegttaataa attaatccaa tcaaaaagtt gtttaaaagt gtgtgttata 240
 actttttcta actagaaata tctagttttt actcttttaa cataaataaa actctaatta 300
 aacattctaa ttaaaactct aattaataaa cttaaaagta tgtgttataa catgcttcct 360
 acactcta ataaacattct cctcggcac cacatanntt ataaaataaa atatttttag 420

tctctt

426

<210> 3480
 <211> 295
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3480

agcttggact tctgtgttc tngaacctc tcttttttca ggtgtacca aacccaatca 60
 cctggttcaa gcacgacttt ctttctgctc ttgttggctc gccttgcata gctcgcatth 120
 ttcttttcaa tttgaacctt cactcgctca tgcaacttct tcacatactc agcttttagcc 180
 tgcgactcc tatgcttaaa catagcaatg ttacgcatac gcaacaaatc aacaggagtc 240
 acaggattaa atccatacac tatctcacat ggtgaacaat tagttgtgct atgga 295

<210> 3481
 <211> 447
 <212> DNA
 <213> Glycine max
 <400> 3481

agcttatatc aagtaagtta tgctacactt cacataaact attagttatt caacaattta 60
 tatatttggt atcatcaaaa ctatgggtat tttggatcat ccagtcaaag cctgacatga 120
 gaattgtcca gagatgcaac aacactagac tcatttttaa aaaaaaacta tagctttgta 180
 ataatttttt tctatattgt tttataaat aaattaaagc ttctatttat tttatatctc 240
 atttttttatt caaattaaaa tgtgacatgt tattaataagg tatcattctt ttaattaatt 300
 ttcttagcat tttaaatca tagattctta ttgattgaat tttcaactct atgatatac 360
 acacatatgg aagaactaca cacaaaatca cattatacag aacactacac taacactagt 420
 attctcataa agaacaaaac tttgata 447

<210> 3482
 <211> 405
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3482

agcttgaagg caaactggat gcattgggta acttggtcac cctgctggcc ttgaatcaca 60
aatttgtacc tgtcgcaagg gtttgtgggt tgtgcttctc tgetgaccac catacagacc 120
ttcgcccttc catgcagcaa cctggagcaa tgcagcagcc tgaagcttat gctgcaaata 180
tttacaatag acctcctcaa cctcagcagc aaaatcaacc acagcagaac aattatgacc 240
tctccagcaa cagatacaac cctggatgga ggaatcacc taacctcaga tggtnacagcc 300
cttagcaaca acaacagcag cctgctcctt ccttccaaaa tgctgctggc ccaagcagac 360
catacatttc tccaccaatc caacaacagc aacaacccca gaaac 405

<210> 3483
<211> 336
<212> DNA
<213> Glycine max

<400> 3483
tccttgagaa gattcttaaa gaagctagag cttagctaca cacacctctc taatagctta 60
tctcacctca ttgagatgag aagctagagc ttagctacat accccttata atagctaagc 120
tcacccccat gacaaaatac atgaaaatac aaaaaagtcc ctactacaaa gactactcaa 180
aatgcctcga aatacaaggc taaaacccta tactactaga atggcctaaa tacaaggccc 240
taatgaagga aaaacctatt ctaatattha caagataag cgggctcata cttagcccat 300
gggctcaaaa tctaccctaa ggctcatgag aacctt 336

<210> 3484
<211> 408
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3484

ctgatgcatg caagcttaat gaagccacaa gaaaagatca ctaccgtctt tccttcatgt 60
gttcttatgc ttgagagact tgcaggacaa tctttctact attttttggg tggatactcg 120
ggttacaatt agattgcagt agatcctcac gaccaagaaa aaacagcttt cacatgtccc 180
ttcgggtgtt ttgcttatcg tgcgatgcca ttccgggttat gtaatggccc cgctaatttc 240
catanctgta tgacggctat tttttctggc atggtagaga aacgtattga tgtctttatg 300
gatgatTTTT cagttcttgg cgcattcttt gagaaccgcc tagccaatct agagaaagcg 360

ttacaacgct gtggagaatc ccatctggcg cttaactgcg aaaaatat

408

<210> 3485
<211> 410
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3485

gtacaaactt ggtagcatta cttattatcc aaagagtttg ttatccatag tgatcacgag 60
tccttaaaat acttaaaagg ccaaggaaag cttaataaga ggcattgctaa gtgggtagag 120
tttttagagc aatttccata tgtcatcaaa cataaaaaag ggaaagggaa tgtaccgggtt 180
gatgcgctgt ctatgagaca tgctttactt gctatgcttg aaactaaact gtttgggtctc 240
gagtctttga aagacatgta tgtgaatgat gtggactttg ctgaaatfff tgctgcatgt 300
gaaaagtttt ctgaaaatgg ttactatang cataatggat tcttgtttaa agcaaataaa 360
ttgtgtgtgc ctaagtgttc cattagagag ttgcttgtga gtgaatcaca 410

<210> 3486
<211> 428
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3486

agcttctatc gctctcattc atctttactc gttctatctc agacctttta tctctgctgc 60
ctaagatttt gcatacacct cccttaaagc gaagtgtgta gtctctctac atcatttggc 120
caatgcttag aagattttct tttagctag gaactagtaa gacatcatgg atgagtcgcg 180
tacatttata tgtctccacc atgacagtgc ctttgccctt tgatttaacc acacttacat 240
ttcccactcc aactttgact ttgacagact catcaatact ttgaaaata gtctcattct 300
tggnecatgtg attgctacat ccactatcca agtaccagct ttctctcttt tcttttattg 360
agtcttgagt ggccgacaac gcacattgtt cttgatcacc gctctctgtg atattagctt 420
gatgccta 428

<210> 3487
<211> 345

<212> DNA
 <213> Glycine max
 <400> 3487

agcttaaggt taatttcaat gctgctaaca cactacctag tgagacgctt accacgtatg 60
 tcatacaaag atgatttact ttgtggggca tatcaaaacg cgaaccaagt taacaactct 120
 gctctaagta aaaacattat ttccacctca agacctttag agttgttaca tcttgatcta 180
 tctggaccaa ccagaaacac atctatcact ggaaagaggt atgaacttgt cctagcgcat 240
 gactattcta gatggagatg ggttatgctt ctatctcaca aggatgactc tttcaatgtc 300
 ttctttaaat tctgcaaaaag agttcaaaaac gaaaaaagag tatgc 345

<210> 3488
 <211> 311
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3488

tagaagatta ttcaaaggt cataactttt cactcggatg tattattcag gtgtatcaca 60
 tatcgagacg ctcgaaatcg aacaacaaga gctctcgaga aattccaatt gtcagaacct 120
 ttcacactga ggtccaattc agccgcatca catatcgaga cgctcgaaat ttaacaacgg 180
 aagctctgac aaaattcaga tgctaataac ttttcaactcg gatgttcgat tcaggcgcgt 240
 tacatatoga gacgctccta attgaacaac agaagctctc gagaaattcc natggtcaaa 300
 aattttcaca c 311

<210> 3489
 <211> 345
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3489

agcttntaat ggaagtcaag agcaagcaat tgtgccgacc cgccgactgg tgagcacgta 60
 tatgagcggg ttcaacaatt caatactgca ttgggcaaga tccaaccgaa cgatcaacgt 120
 cacagttgca tatggaacaa cacgtccatt ttctctgata ttccgtactg gtctgatctt 180
 gacgctagac atcgcatgga tgctatgctt gcgcagacac atgtttgtga cactgtgatt 240

gtgacctcc ttaacattca acgcacgacg aaggatggnt tgaatacccc gccaaagacta 300
gctgatatgg gcataccatc acagttgcat cccaggcttg atggg 345

<210> 3490
<211> 387
<212> DNA
<213> Glycine max

<400> 3490

agcttgtgca tataatactc tgatgacgat gtcttatatg ttcttaaadc tggactgatc 60
cacttgctgc ccaagtttca tggctcttga ggtgaagacc ctcataaaca tctgaaagaa 120
ttccatattg cctgctccac catgaatcct tcagatgtcc aagaagatca catttttcta 180
aaggcctttc ctcatctttt agagtgagtg cgaaaggact ggctatatta ccttgctcca 240
aggtctatca ccagctacga tgaccttaag agagtattct tagaaaaaaaa tttccctgct 300
tccaggacca ccaccatcag aaaggatatt ttacgcatta ggcaactcag tggagagagc 360
ctatatgaat actgcgagag atttaaa 387

<210> 3491
<211> 339
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3491

tgtagcanat tcaaacgaca ataactttta actcagattn cttattgaat tccgtagtat 60
atcgagacgc tcgaaattca gaacaaaagc tctgagcaaa atcaaacgac aataactttt 120
tactcggatg tccgaatgaa tctcgtaata tatcgagccg ctcgtaattg aaaacagaag 180
ctctgagcaa attcaaacga caataacttt ttacttgtat gtccgattgt ttcccgcagt 240
ataacgagac cctcgtaatt gaaaccagaa gctcgtagca aactcacacg gcaataaatt 300
tttactcgga tgtccgaatg aatcccataa tatatcgag 339

<210> 3492
<211> 338
<212> DNA
<213> Glycine max

<400> 3492

tattgggctg taaagacctg caacttctct attgatcagg ctttatagga aaggaagttg 60
caactaagtg agctagatga gatccgttta gaagcctatg agaattccaa attctacaag 120
gagaagacca agaagttcca tgatagtttg atagctaaga aggactttgt gggtggacag 180
aaagttttat tgtataactc taggttcaga ctcataaatg gtaagttgag gtaaaagtgg 240
attggtcctt ttgtggtgac taatgttttt ccttatggta cagttgagat caaaagtga 300
tccacagatt agagcttcag ggccatggac actggctg 338

<210> 3493

<211> 423

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3493

agcttcaagt ctgcttaaca taacactntt tagtttacta ttttcttata ttgcttcatg 60
ctattagtgc aaactgtttt gctatgttct gtgttttttt gatcgtgttg gggttctgag 120
tttgaaagtt gaacggttgt gtttagcttt ctgaacccaa ggttacaagg gccttggtat 180
gttggtgttg ntgtatggca ctataacaca tgaatgcact ttggtttgca acctgctgag 240
tctgcaaagg gttgtgaagc caatttaata ttaaataaaa acaaagtctn tctctctttc 300
tctctntgna tgtttatnga acaattataa atatttatag attatcttca ataataattg 360
atgaaaatat aatttaataa tattctatat taatccaact tcttatatag tcatgtaatt 420
tac 423

<210> 3494

<211> 358

<212> DNA

<213> Glycine max

<400> 3494

ctacccttat tttccaatct aagtaagctt ctacattgac cttcctgatg caatcctacc 60
tcgcaagggc attggataga agactccaag cagattgggc cacagatgca agaaaatgcc 120
ctacggctct cgtgagcctt ataatagatg tcagacacat gggcttagta tgagtccact 180
tatctttgta catattataa taagagttca ttattattgt tccttgattt tacgggtcca 240

tgactgtcgt acgataccct agatatgtac gattctccat cctcgtatt ctaaggcacc 300

tatgctagct tttatattat tggtaactat ataatttcac atgcgttaag gcatattt 358

<210> 3495

<211> 396

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3495

agctcggcca gcttcggaag tcctatgaaa ttgatcctta gccataatg gcgtgaaagg 60

tgctgctatg gttgcgtacc ctttaatgaa gcgtcgataa aaaacctgat aaacctagga 120

atccnctcaa cgctcgagtc gactgagggg tcggccattg ttgcacgacg gcaactttcg 180

caggaactgg ttcaacgcct tttgcagaaa ccaagtgacc caggatttcc acttgttggg 240

tcgcaaagga acatttggat agtttcacga caaagctggt gtcggtgaga gtttgcaagg 300

ccatccgcag attctcgaga tgatcagaga aactctggct gtatattaga atatcgtcca 360

agaagatgat aacccattta tgcaagtagg gtccaa 396

<210> 3496

<211> 322

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3496

nggacaatgg taatgcaatc ttgcataaat cctagatgaa tcttctatag aaacttgcac 60

gaccaagaaa aaaacacact ttctgcacag aagcatggta aggtagagaa gtaataacat 120

caatcttggc cttattgacc tcaatacctc tactagagac caaatgcctt agaactatat 180

catcatgtac cataaaatgg aatttctcaa agttaaaaac aaggttagtc acaatgtagt 240

agtcaagaac ttgagagagg ctatccaaac atgcataaaa aaggaaccat aaacagtgaa 300

atcatccaca aacaccttca tg 322

<210> 3497

<211> 391

<212> DNA

<213> Glycine max

<223> unsure at all n locations
<400> 3497

tcacaaaagt ttatatggct tgaacaagc atcgaggtag tggtaacaaga agtttaaatga 60
gtttatgagc aactcaggat tcataagatg tgacatggac catngctact atgttgagaa 120
atataactaat agttatgtta tccttgctgcg gtatgttgat gacatgttga ttacaggatc 180
tagtatgata gaaattaata gtttgaagca atagttggca gataactttg aaatgaagga 240
tcttgggtcca gctatacaaa tccttgggtat gagaattctt agaaacagat cagaaggaga 300
tttgaagttg tctcaggaga aatatatata caagttgctt gacagggtttt accttgaaga 360
atctaagacc aggaataccn ctttgggatc t 391

<210> 3498
<211> 465
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3498

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